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## Mengele on the Run: A Protector Speaks

By Richard House  
International Herald Tribune

SAO PAULO — As Brazilian investigators prepared to begin major forensic work on remains alleged to be those of Josef Mengele, the Nazi war criminal, the man who claims to have sheltered him for the last years of his life has provided new details of what he said was Dr. Mengele's time in Brazil under an assumed identity.

Wolfram Bossert, 59, and his wife, Liselotte, 57, in an interview Sunday at a secluded forest hut that they said Dr. Mengele sometimes visited, denied having been in contact with any international network of postwar Nazi protectors.

"If an organization of Nazis really exists, then they should be ashamed not to have found any other protection or shelter for Mengele than a Hungarian couple or myself, who had nothing to do with it. I was 19 when the war ended," Mr. Bossert said. He denied that any organization had contacted him during the period in which he claims to have protected the war criminal.

The Bosserts say they sheltered Dr. Mengele at their farm from 1975 to February 1979, when, they say, he drowned in a swimming accident. They said Dr. Mengele disclosed his identity to them when he was certain that they would not give him away.

The search for Dr. Mengele began to focus on Brazil after West German police found a cache of letters last month leading them to a grave exhumed Thursday outside Sao Paulo. Officials have said that examination of the remains is expected to take as long as three weeks.

Opinions of officials and private Nazi hunters about the new clues to Dr. Mengele's whereabouts in the 1960s and 1970s have varied, and extensive police work remains before the claims about the life and death in Brazil of the man alleged to have been Dr. Mengele can be verified.

West German experts in Brazil said they believe the remains are those of Dr. Mengele, according



Wolfram Bossert and his wife, Liselotte, who say they harbored Josef Mengele, watch diggers exhumate remains that they claim are those of the Nazi war criminal.

**'He was a very intelligent man. He was an SS officer. When there was a news article about him, he'd sit thinking for hours.'**

— Wolfram Bossert

to a report Monday in a West German newspaper, but an Israeli government spokesman said that Israel would continue efforts to catch him, news agencies reported.

"I've heard of the Odessa," Mr. Bossert said Sunday, referring to an organization believed to have helped take Nazis out of Europe after the war. "It probably existed, because Mengele obviously left Germany with someone's

help. But I can guarantee that in our case there was no contact with anyone. I was alone with Mengele."

"Perhaps that's the reason why he was never discovered. If the circle had been wider then he could have been found."

Mr. Bossert said that Dr. Mengele, who had assumed the identity of an Austrian named Wolfgang Gerhard, was paranoically shy and would never go out with-

out wearing a hat because he had been told that he had a very distinctive forehead. On the street he imagined that everyone was watching him.

"He wasn't so stupid to risk his life," Mr. Bossert said. "He was very cautious. He was the most sought after man in the world."

"He had a tremendous will to live; that's why he survived so long. He used all means available to ensure his security and protection," Mr. Bossert said.

"He was a very intelligent man. Don't forget he was an SS officer. Sometimes he'd sit and think about all the possibilities. When there was a news article about him, he'd sit thinking for hours, about where the news came from and if it was true or a police plant."

Dr. Mengele, who was known as the "Angel of Death," conducted gruesome medical experiments on inmates, particularly children and twins, at the Auschwitz concentration camp in Poland and sent hundreds of thousands of Jews, Poles, Gypsies and other prisoners to their deaths.

Mr. Bossert said: "Once you know someone well and become friends, someone who likes nature, children, animals and is interested in literature and philosophy, it becomes very difficult to believe that this person could have committed such cruel crimes. The police tell me that many criminals seem like angels, but I'm still in doubt."

"It's easy to say that knowing a criminal every citizen has an obligation to denounce him. But if you know someone intimately even if he's a wanted man — I just couldn't do it," said Mr. Bossert, who admitted that he had been a member of the Hitler Youth, but minimized its importance.

Mr. Bossert quickly interrupted her husband, when he said that Dr. Mengele had lived so simply that he sometimes used torn or frayed clothes, to say that she had sewed for him. She said she had been dismissed last week from her post as a teacher after the

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## Strength of Dollar Threatens Global Upturn, BIS Says

By Carl Gewirtz  
International Herald Tribune

PARIS — The annual report of the Bank for International Settlements, widely viewed as the most forthright commentary about the international economic scene, warned Monday that the "speculative bubble" that has driven the dollar to levels "substantially divorced" from reality is a menace to sustaining the upswing of world economic activity.

Keeping up that economic momentum, the report said, "is the prerequisite for solving almost all

The dollar closed sharply higher in European trading, Page 13.

other problems" — high unemployment in Western Europe, control over inflation, the debt crisis of the developing countries and stability in exchange rates and in international financial markets.

While the International Monetary Fund and the Organization for Economic Cooperation and Development have sounded similar warnings, neither has gone so far as the BIS in raising the specter of an impending financial crisis.

The concern in official circles is whether policies are adjusted to foster what is called a "soft landing" for the dollar or whether there is a "hard landing" that creates international turmoil.

"The stakes are high," the BIS stated, "and it is the duty of policymakers to do everything to avoid financial disturbances... even if no one can attach any degree of probability to such an occurrence. Preparing the way for an orderly unwinding of the U.S. external imbalance should figure as a priority item on policy-making agendas."

The measure of this imbalance is the U.S. current-account deficit — which is at an annual rate of \$115 billion. Part of this deficit results from the U.S. business recovery being stronger than else-

where, drawing in more imports than other countries do.

But "the bulk of this deterioration has been brought about by the appreciation of the dollar, which has dramatically undermined the competitiveness of the entire internationally traded goods sector of the United States," the report said.

Noting that "there is no parallel for this phenomenon of an ever-strengthening currency based on ever-increasing capital inflows, with the current external account steadily deteriorating," the report warned:

"Even for the United States, however, there are limits to the current external deficits that can be run and the deterioration of the international investment position that can occur without loss of confidence in the dollar," it said.

Thus, the BIS echoes the International Monetary Fund and the Organization for Economic Cooperation and Development in urging speedy rectification of the U.S. policy mismatch, particularly the lax fiscal policy fostering a huge budget deficit and a relatively tight monetary policy that keeps interest rates and the dollar high. It is this mismatch, the BIS asserts, that has created the imbalances. Questions about whether the imbalances are "systemic" requiring an overhaul of the international monetary system — are best delayed until national policies are better adjusted.

While the BIS, like the other institutions, believes official intervention in exchange markets can be useful — at the least just to remind speculators that rate movements can go in both directions — it cautioned that recent intervention may have been responsible for the increased volatility in exchange rates.

The intervention may have instilled a sense of caution when, following reports of slow first-quarter growth, faith in the dollar became less strong. With no currency having replaced the dollar, "the exchange market has become rather directionless," the report said.

But the BIS added that "large daily exchange-rate movements with little overall change may be less harmful than unidirectional movements that carry rates to levels that are unsustainable in the long run."

Turning to the role that Japan, West Germany and Britain might play in relieving the United States of its role as locomotive of the economic revival by embarking on a policy of fiscal stimulus, the BIS noted that all three have so far refused to follow such a policy course.

While accepting the logic of the refusal, the BIS advised: "Just as the best time horizon for successful domestic policies is the medium or longer run — except in cases of an impending financial crisis — international policy coordination should also be conceived within that time horizon."

It also urged these countries "to speed up, perhaps even radicalize, their efforts towards removing structural rigidities" as a means of improving their own growth prospects.

But its major emphasis was on "the great need for far-reaching changes in the way prices and wages are set" to make both more flexible and responsive to changing conditions.

"Quite bluntly, something has gone basically wrong in the way prices are set in many Western industrial countries, first and foremost," the report said.

The proposal would have restored 4 percentage points in pay increases that the government cut out of the scale in an effort to

(Continued on Page 2, Col. 3)



Claus von Bulow

## Jury Finds Von Bulow Not Guilty In 2d Trial

The Associated Press

PROVIDENCE, Rhode Island — A jury found Claus von Bulow not guilty Monday of twice trying to murder his wife, an heiress, with insulin injections.

The verdict ended a four-year ordeal for Mr. von Bulow, who had been convicted of the same charges at an earlier trial.

Cheers were heard in the crowded courtroom as the verdict was announced, and prosecutors were booed by about 150 people outside the building as they left.

Mr. von Bulow, who was indicted in July 1981 on the two charges of assault with intent to commit murder, dropped his head into his hands as the verdict was announced. He then smiled, shook hands with his attorney and embraced his lover, Andrea Reynolds, who was weeping.

"I'm very relieved, and above all I'm grateful to my attorneys," Mr. von Bulow said later. He said he now would try to lead a quiet life.

Mr. von Bulow said the most difficult part of the trial was not taking the stand in his own defense, but that he had to agree with his defense attorneys' approach that it

(Continued on Page 2, Col. 5)

## Reagan To Retain SALT-2

He Says U.S. Will Destroy A Submarine

The Associated Press

WASHINGTON — President Ronald Reagan told Congress Monday that the United States would adhere to SALT-2, the unratified Strategic Arms Limitation Treaty, and he warned Mikhail S. Gorbachev, the Soviet leader, to correct Soviet violations of the accord.

"The United States has fully kept its part of the bargain, however, the Soviets have not," Mr. Reagan said in a statement.

To keep the United States under the limit of multiple-warhead missiles allowed by the accord, President Reagan said he intended to order the dismantling of a Poseidon submarine when a new Trident submarine puts to sea this fall.

But the national security adviser, Robert C. McFarlane, who read Mr. Reagan's statement to reporters, said the United States might rebuild and reconfigure the Poseidon for use as a training vessel "or for some other purpose" — as he said the Soviets have done in at least one case.

Mr. Reagan cautioned the Soviet Union that any lapses on its part involving the strategic arms limits would prompt "proportionate responses" from the United States, U.S. officials said.

The 1979 strategic arms limitation treaty, signed by President Jimmy Carter and Leonid I. Brezhnev, was condemned by Mr. Reagan, before he won the presidency, as "fatally flawed." Washington put off action to ratify the treaty after the Soviet Union intervened in Afghanistan in December 1979. The treaty expires at the end of the year.

The president's decision on the arms pact, made over the weekend at his Camp David retreat in Maryland, does not promise open-ended U.S. adherence to the ceilings the treaty places on intercontinental missiles based in ground silos or multiple warhead systems based on missiles or carried by submarines and bombers.

Mr. Reagan's action is designed to carry the United States past the next point of decision: scheduled sea trials in September for a nuclear submarine, the Alaska, whose 24 multiple-warhead missiles would take the United States over the 1,200 limit set by the treaty.

In his letter to Mr. Gorbachev, Mr. Reagan accused the Soviet Union of "extremely serious" violations of the agreement but expressed hopes that negotiators now meeting in Geneva would produce a new accord, a U.S. official said.

The decision was seen as a victory for arms control advocates and a defeat for Secretary of Defense Caspar W. Weinberger.

Mr. Weinberger had urged the president to abandon the treaty, which the defense secretary referred to as a "pseudo" accord, said a Pentagon official who did not want to be identified.

Mr. Reagan, in two reports to Congress, has accused the Soviet Union of a number of violations of the strategic arms treaty and of other arms control agreements.

Specifically, he has charged that the Soviet Union tested two new intercontinental ballistic missiles, the SSX-24 and SSX-25, one more than the treaty permits.

## Last of Israeli Units Leave Lebanon; Peres Urges Peace Talks in 3 Months

Reuters

METULLA, Israel — The Israeli Army withdrew its last units from Lebanon on Monday but left military advisers and plainclothes agents behind to watch over the southern border zone, generals at the frontier said.

In Jerusalem, Prime Minister Shimon Peres told parliament, "Israel is completing its departure from Lebanon land and from Lebanese politics."

"In the Arab world there were rumors that Israel had its eyes on Lebanese land or water from Lebanese rivers or on Lebanese politics," he said. "All these rumors have now proved to be baseless."

"The departure of the Israel Defense Forces from Lebanon not only ends its presence in Lebanon but also puts a halt to the fears that our presence had raised," he said.

In his address to the Knesset, Mr. Peres also issued an Israeli plan for opening direct Middle East peace talks with Jordan and Palestinian delegates within three months.

The plan for peace talks, which contained no sharp departures from previous policy, called for continuing consultations among the United States, Israel, Jordan,

Egypt and Palestinians who are not members of the Palestine Liberation Organization.

As the final contingent of 30 tanks rolled across the frontier, women soldiers rushed forward to embrace arriving troops and pinned paper flowers with the words "Welcome Home" on their uniforms.

Generals said the army had now pulled out its last unit, ending a three-year occupation that cost Israel 654 dead and divided the country as never before.

Israel's three-stage pullback began in February. It was due to have been completed last week on the third anniversary of the June 6, 1982, Israeli invasion.

No official reason was given for the delay. Western experts speculated Israel wanted more time to strengthen the Israeli-backed South Lebanon Army that is positioned in a security strip in Lebanon just north of Israeli border.

Israel has said it would turn over the security zone it has established, 8 to 12 miles (about 12 to 20 kilometers) deep in places, to the South Lebanon Army. The Israelis say the mostly Christian force numbers about 2,000 men, but security

sources say its fighting strength is closer to 500.

An undisclosed number of Israeli advisers and troops were expected to remain in the zone to aid the Christian force.

Hours before the last units pulled out Monday, two Katyusha rockets fired from Lebanon exploded at Moshav Shomera, an agricultural settlement on the border.

The rockets, which caused no damage, were the first to land in Israel since the withdrawal began. "No one who deals with Lebanon ever claimed that we should not anticipate Katyushas," said Uri Lubrani, Israel's coordinator for Lebanon. "The border cannot be sealed hermetically."

Army attack helicopters were sent into southern Lebanon in an effort to seek out the guerrillas responsible for the attack, security sources said.

The 1982 invasion was launched with the declared aim of driving Palestinian guerrillas out of rocket and artillery range of northern Israel and destroying their bases in southern Lebanon.

Outlining his peace proposals in an address to parliament, Mr. Peres rejected the call by King Hussein of Jordan for an international confer-



Shimon Peres

ence that would include the Soviet Union.

He urged that the direct talks open within three months and be attended by the United States.

Palestinian delegates should represent Arab residents of the Israeli-occupied West Bank and Gaza Strip, he said, without going into detail. Israel has already rejected participation of members of the Palestine National Council, which

(Continued on Page 2, Col. 1)

## Craxi Wins Referendum Over Wages

By E.J. Dionne  
New York Times Service

ROME — Italian voters rejected Monday a referendum sponsored by the Communist Party designed to overturn a key element of the government's economic austerity program.

The defeat for the Communists' proposal was a victory for the Socialist prime minister, Bettino Craxi, who said he would resign in "one minute" if the referendum were approved. With four-fifths of the voting districts counted, the referendum was turned down, 54 percent to 46 percent.

The balloting was on a Communist proposal to repeal the government's decision to cut back on the automatic wage increases that workers get under Italy's *scala mobile*, or moving staircase, the mechanism that protects them against inflation.

The proposal would have restored 4 percentage points in pay increases that the government cut out of the scale in an effort to

(Continued on Page 2, Col. 3)

## Air Raids Alter Tehran Way of Life

Many Commute Nightly to Countryside to Avoid Bombs

By Pierre Taillefer  
Agence France-Press

TEHRAN — In the past two weeks, the war with Iraq has returned with a vengeance to Tehran, bringing a new type of commuter rush hour aimed at avoiding the air raids now occurring nearly every night.

The change in Tehran residents' way of life has been caused by 23 air raids since May 25, by the resulting casualties, by rumors fed by the authorities' refusal to give official figures about them and by the destroyed buildings.

Tehran is now divided between those who prefer hours of traffic jams in order to spend the night cramped in their cars and those who would rather take their chances in the city.

For those who leave, the process begins shortly after school, or work. From 5 P.M. to 6 P.M., tens of thousands of people pack mattresses, blankets, food and clothing into and onto their cars and then inch their way toward the foothills of the Elburz range, north of the city, or to the orchards to the south.

Latecomers arriving at their destination sometimes must travel further to find a roadside parking spot since the ribbon of cars can extend more than 20 to 25 miles (about 32 to 40 kilometers).

If the weather is good, the evening can begin pleasantly. Shish kebabs sizzles on grills, tea samovars simmer over coals, children play with new friends, adults converse quietly.

But the festive air disappears as twilight deepens. When Iraqi planes appear over Tehran, and as the flash of anti-aircraft guns punctuates the night sky, the fear becomes more palpable.

The anxiety mixes with discomfort as those without tents, or worry of the snakes and insects outside, try to sleep in their cars. By morning, the evening's fun and the night's anxiety have dissolved into irritability with the prospect of a slow, four- to five-hour drive back to the city.

When the Iraqi planes arrive over Tehran, the first warning comes by radio: "Lights out, lights out." Cars stop, and streetlights are replaced by the eerie glow of security forces' flashlights dimmed with blue-painted filters.

The security men scold those who keep their radios too loud, or their cigarettes lit.

The second warning is accompanied by sirens: "Attention, attention, red alert. Go to the shelters."

Some apartment dwellers leave their homes for wide streets, where they are less fearful of falling

shrapnel than of falling buildings. Others go to air raid shelters in their buildings although most Tehran apartment buildings are flimsy and are likely to bury anyone in their cellars if they take a direct hit.

Most who stay in the city, whether at home or in shelters, keep their money, jewels and identification papers with them and have a flashlight and radio at hand.

There have been 23 such raids in the past 16 days. They have created several new markets for "ready-made" shelters, for tranquilizers and sleeping pills, for mass transport to the countryside and for subterranean dwellings in the suburbs.

The raids have also helped thieves who use the exodus to clean out homes abandoned for the night.

■ **Missile Strike on Baghdad**

Iran reported a long-range surface-to-surface missile strike on Monday on Baghdad, the third such attack on the Iraqi capital since May 26, Reuters said. Iran's national news agency, IRNA, monitored in London, said the attack was launched at sundown in retaliation for Iraqi air raids.

Baghdad residents reported a large explosion. There were no immediate reports of damage or casualties.

## Long-Range Problems Face U.S. Computer Industry

By Andrew Pollack  
New York Times Service

SAN FRANCISCO — Advanced Micro Devices Inc., a maker of computer chips, celebrated last Christmas with typical Silicon Valley flamboyance — a \$700,000 employee Christmas party featuring entertainment by the rock group Chicago and a 50-piece orchestra.

Six months later, Advanced Micro is making its employees work longer hours for no extra pay and will close its factories for two weeks to cope with plunging earnings and possible losses. It has introduced an austerity program called *Staunch*, which stands for "Stress Those Actions Urgently Needed to Check Hemorrhaging."

The computer industry, long considered one of the industrial bright spots in the United States, has plunged into a sudden, deep and unexpected slump that shows no signs of disappearing.

The slowdown has proved a rude shock to an industry that has always believed in its own boundless future. Some executives are beginning to suggest that the old days of extravagance may be gone for a long time.

"It's the worst downturn in my experience," said W.J. Sanders 3d, chairman and chief executive

officer of Advanced Micro Devices.

Hardly a day passes without a company in the field announcing a temporary plant slowdown or layoffs. In recent days, National Semiconductor Corp., another maker of computer chips, said it would lay off 1,300 workers, while Wang Laboratories Inc., a producer of computers and word processors in Lowell, Massachusetts, announced 1,600 layoffs and said it would lose money for the first time.

Slowdowns in the computer industry have occurred before, but this one appears to be different. What worries the industry and outsiders about this downturn is that it comes at a time when the economy, while not robust, is not in a general recession. This suggests that other factors are at work that could be more permanent.

This slump also seems more pervasive. The personal computer boom continued through the 1981-82 recession, for instance. But no segment of the electronics business, with the exception of military electronics and aerospace, has escaped this time.

Such companies as Hewlett-Packard Co., Digital Equipment Corp. and Wang, once paragons

of American technology, are having difficulties.

So are Apple Computer Inc. and ComputerVision Corp., which soared through the 1981-82 recession. Even International Business Machines Corp. has seen its earnings slump.

Never before, experts say, has it been so hard to earn a profit in the computer industry. To find out why, executives and analysts who follow the industry were interviewed in the past few days. What they see is an industry facing problems, many of them new, that may not be resolved soon.

'All that overdoing comes home to roost a few years later.'

— Simon Ramo, Founder of TRW Corp.



Simon Ramo

Industry executives differ as to the causes of the slump and about how long it will last. "We're having a hard time correlating what's going on," said John A. Young, the president of Hewlett-Packard. Some, like Mr. Young, think the technology industry will rebound eventually. Others think it is going through a major restructuring and will never be the same.

"There is danger here," said Andrew S. Grove, president of Intel Corp. "This is not another slowdown. It's a shakeout. A whole lot of companies won't

come out of it anywhere near the way they went in."

Many explanations of the problems are offered. Certainly the strength of the U.S. dollar has hurt exports of technology, and weakness in the manufacturing sector of the U.S. economy has slowed computer and semiconductor purchases. Some companies are victims of their own mismanagement or of competition from IBM, the largest computer company by far.

The main problem appears to be not lack of demand but oversupply of products and overcrowding of companies into the market. Also, foreign competition is taking its toll on U.S. computer companies. For the first time last year, the U.S. balance of trade in electronics showed a deficit.

There is widespread agreement, too, that the computer industry is feeling the pain of its own excesses. Too many companies specializing in the same things have been formed, each lured by potential riches and each believing in its own success. In a time that has been widely hailed as the era of the entrepreneur, many people think the computer industry is suffering from the ill effects of the entrepreneurial spirit run amok.

"All that overdoing comes out of it somewhere near the way they went in."

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# UN Aides Begin Probe On Taking of Finnish Hostages in Lebanon

By Edward Walsh  
Washington Post Service

JERUSALEM — United Nations officials began an investigation Monday into the deadlocked hostage dispute that began Friday between the UN peacekeeping force in southern Lebanon and the

Israeli-backed South Lebanon Army.

A French brigadier general, Jean Pons, who is the deputy commander of the United Nations Interim Force in Lebanon, or UNIFIL, was put in charge of the investigation into the incident. More than 20 Finnish soldiers from the UN force were abducted by the South Lebanon Army.

The militia, with the backing of its Israeli sponsors, was holding 21 of the Finns and demanding that the rival Shiite Muslim militia Amal release 11 South Lebanon Army militiamen who were captured Friday. Israel and the South Lebanon Army have charged that a Finnish unit of UNIFIL assisted Amal in the capture of the 11 militiamen.

[Finland condemned Monday the seizure of its troops in southern Lebanon and appealed to the UN and "relevant" governments to take urgent steps to release them. Reuters reported from Helsinki.]

Timor Gökseel, the UNIFIL spokesman, said UN officials were informed Monday that the 21 Finnish captives have been moved to the southern Lebanese town of Marjayoun, where the South Lebanon Army of Antoine Lahad has its headquarters.

Mr. Gökseel said that UNIFIL liaison officers met with an official from the South Lebanon Army on Monday in an attempt for UN medical teams to gain access to the Finnish soldiers. But he said that no agreement was reached because the militia was demanding a meeting with the 11 men being held by Amal.

"The problem is that they have our men but we don't have their men," he said.

Mr. Gökseel described the investigation headed by General Pons as a routine, in-house inquiry that is required after any serious incident. He denied widespread reports in Israel that it was ordered by the UN secretary-general, Javier Pérez de Cuellar.

As the hostage dispute continues, Israel apparently is hoping to use the incident to gain concessions from UNIFIL for the de facto recognition of the South Lebanon Army, which is trained, equipped and financed by the Israelis.



Some of the Finnish members of the UN peacekeeping force who are being held hostage by the South Lebanon Army.

## Last of Units Quit Lebanon

(Continued from Page 1)

functions as a Palestinian parliament in exile.

Mr. Peres told parliament the plan entailed enlisting support from permanent members of the UN Security Council for direct talks among Israel, Jordan and the Palestinians.

His move followed a Jordanian call for an international conference, including the Soviet Union and the United States, as well as Britain, France and China.

Israel and the United States oppose such a conference. Mr. Peres' proposal to seek Security Council backing was an apparent response to King Hussein's call for an international umbrella for the talks.

"Despite the obstacles and the difficulties along the way, it is possible to reach direct negotiations," Mr. Peres said.

He said Israel was willing to make "a major contribution."

"It is possible that there is a change in atmosphere in the Middle East," Mr. Peres said. "It is possible that an opportunity has been presented, that it is forbidden to miss."

## Beirut Gunmen Seize U.S. Educator

Reuters

BEIRUT — Unidentified gunmen have seized a U.S. citizen who is a dean at the American University of Beirut, in what might have been an attempt to capture the university's president, Calvin Plimpton, university sources said Monday.

Thomas Sutherland, 54, dean of the university's agricultural and food sciences faculty, was ambushed Sunday on his way from the airport to his campus residence.

Sutherland said the attackers may have missed their real target, a university source said. "Plimpton was supposed to be on the same flight but changed his mind at the last moment and canceled."

After firing at the tires of the car, the gunmen, traveling in at least two vehicles, grabbed Professor Sutherland but let his driver go, according to the university spokesman, Radwan Mawlawi.

Professor Sutherland had no bodyguard and "never let us feel he was afraid of anything," the spokesman said.

The professor, who is from Fort Collins, Colorado, was the fourth Westerner on the university staff to be abducted in six months.

Professor Sutherland, who was born in Scotland, has a wife and children, all in the United States. No group has yet claimed responsibility for the abduction.

The seizure of the dean underlined the insecurity in Beirut, where Shiite Muslim forces took their siege of Palestinian refugee camps into the fourth week. Also, there were clashes along the line dividing Moslem West Beirut from Christian East Beirut.

As sporadic shooting and shelling continued around the camps, officials of the International Committee of the Red Cross voiced concern that they had not been allowed to further rescue operations but we have not been given the necessary security guarantees," a Red Cross official said.

The Red Cross has moved 93 wounded from Borge Barajni in earlier evacuations, but officials who accompanied a UN relief convoy into the camp on Saturday said about 300 sick or wounded people were crowded in its only hospital.

Red Cross ambulances have been denied access to the Chaila camp, where Palestinians say about 180 wounded persons are trapped in a mosque. Long after fighting stopped at the nearby Sabra camp that was captured by Shiite Amal militia forces, the Red Cross was allowed in to remove 12 bodies.

More than 520 people have been killed and 2,200 injured since the Shiites began their assault on the camps. The attacks are said to aimed at preventing the Palestinians from regaining the power they had before the Israeli invasion of 1982.

In Kuwait, George Habash, a Palestinian leader, said Monday that Syria was behind the Shiite attacks on the refugee camps. Mr. Habash heads the Popular Front for the Liberation of Palestine.

## Von Bulow Is Acquitted In 2d Trial

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was a "medical case and there was no wrong done."

The eight-woman, four-man jury deliberated about 14 hours over four days before reaching its verdict. It had heard six weeks of testimony from 42 witnesses.

"This is a jury who clearly hasn't had any trouble coming to a decision," Superior Court Judge Corinne P. Grande said.

Mr. von Bulow, 58, was charged with injecting Martha von Bulow, known as Sunny, with insulin and inducing the comas she suffered during Christmas vacations in 1979 and 1980 at the family's Newport mansion.

Mrs. von Bulow recovered from the first coma, but doctors say the second is irreversible.

In 1982, a jury deliberated 37 hours over six days before finding Mr. von Bulow guilty, but that verdict was overturned last year by the Rhode Island Supreme Court on state constitutional grounds.

Mr. von Bulow's chief defense attorney, Thomas P. Puccio, relied on nine medical experts in arguing that insulin injections did not cause the comas.

Mr. Puccio maintained the comas were induced by Mrs. von Bulow's abuse of drugs and alcohol. Assistant Attorney General Henry Gemma said he was "very disappointed."

"This has been a complete and total commitment for the past six months. We gave it our all, but after four days of deliberations, the jury said there was reasonable doubt," he said.

The prosecution was able to persuade Mr. von Bulow's former lover, Alexandra Isles, to return from Europe and repeat her 1982 testimony that she had given him a deadline for divorcing his wife shortly before the first coma.

She also testified he told her of watching his wife suffer for hours during that coma before deciding he could not go through with letting her die.

But the state was not allowed to allege again, as it had in 1982, that Mr. von Bulow wanted to inherit his \$14 million share of his wife's \$75 million fortune for holdings in Pittsburgh utilities.

## WORLD BRIEFS

### Mitterrand Warns on Farm Trade

PARIS (Reuters) — France will oppose in future international talks any pressure for free trade in farm products, President François Mitterrand said Monday.

"In the extremely fragile sector of food production I do not believe that totally free trade is the only way to stimulate economies and best satisfy the needs of everybody," he said in an address opening the annual ministerial meeting of the United Nations World Food Council.

Farmers in developing countries cannot compete against mechanized producers, Mr. Mitterrand stressed. His comments, accompanied by a plea for action to help African farmers, indicated that France has not softened its resistance to demands by the United States for freer agricultural trade.

### Blackmail Alleged in British Spy Case

LONDON (AP) — Seven British servicemen stationed in Cyprus systematically fed top-secret military information to a foreign power under blackmail threats that their homosexual activities would be exposed, prosecutors said Monday.

"They as servicemen acted as spies and as spies they betrayed to the agents of a foreign power some of this country's most precious military secrets," said Michael Wright, a prosecutor, in London's Old Bailey Central Criminal Court. The servicemen have pleaded not guilty to 28 charges under Britain's Official Secrets Act. They are charged with spying between Feb. 1, 1982, and Feb. 6, 1984, while stationed at Britain's Episkopi military complex in southwestern Cyprus.

### Beijing, Bonn Reach Nuclear Accord

BONN (Reuters) — China moved a step closer Monday to buying up to four nuclear reactors from West Germany when it signed a memorandum on long-term nuclear energy cooperation with a leading reactor supplier, Kraftwerk Union AG.

The document was signed at a ceremony attended by Chancellor Helmut Kohl and Prime Minister Zhao Ziyang of China, who is here on a nine-day visit, after the two held talks lasting just under three hours. China and West Germany also signed three agreements, aimed at strengthening their already flourishing economic ties.

The sale of four 1,000-megawatt pressurized water reactors which Kraftwerk hopes to build in the face of strong competition would involve a wide-ranging transfer of German technology enabling China to build eventually its own nuclear plants.

### Nicaragua Rebels Admit Loss of Bases

MANAGUA (UPI) — U.S.-backed Nicaraguan rebels, saying they "badly need arms and ammunition," acknowledged that Nicaragua's army captured two of their major bases in an offensive that damaged their campaign to topple the government.

A radio broadcast Sunday by the Democratic Revolutionary Alliance was the first report about clashes with Nicaraguan troops in a jungle area 150 miles (about 240 kilometers) southeast of Managua. The army began an offensive last year against alliance bases, driving large numbers of guerrillas into Costa Rica.

"The Sandinist Army has taken our bases in El Castillo and La Pemas," the alliance said over the radio. The camps are less than 40 miles apart, near the border with Costa Rica. "We continue to resist, but we badly need arms and ammunition," the alliance said. "It has become difficult to supply our men in the continuing fight."

### For the Record

The European Court has told Italy to abolish automobile registration rules aimed at preventing Italians from importing cars from France, West Germany, Belgium and the Netherlands at prices below domestic levels, court officials said Monday.

Two leaders of a gang that carried out Britain's biggest cash robbery were sentenced Monday to 22 years in prison each. The judge said he regretted he could not recover the \$6.3 million (then \$10.3 million) they stole in 1983 from Security Express headquarters in London.

Prime Minister Laurent Fabius of France arrived in East Berlin on Monday for a two-day visit and conferred with Erich Honecker, the East German leader. It marks the first official visit to East Germany by the head of government of one of the city's three Western-occupation powers. (UPI)

## Dr. Mengele on the Run: A Protector Gives Details

(Continued from Page 1)

revelations about the couple's alleged connection with Dr. Mengele.

Mr. Bossert said that when he wrote to Germany advising Dr. Mengele's family of his death and burial on Feb. 3, 1979, "I said probably they'd agree to maintain the secret. They replied in a letter that naturally the case was much too dangerous to be revealed and that much water would have to flow under the bridge before this could be exposed. So I kept the secret."

The contact was Hans Sedlmeier, Mr. Bossert said. Mr. Sedlmeier is a former employee of the Mengele family company in Götting, West Germany, and the man who the Bosserts claim was Dr. Mengele reportedly had received sporadic payments of dollars from him.

"Sedlmeier brought money once, but it was never a regular thing," he said.

Part of this money had been invested in a small farm at Calceiras, where Dr. Mengele had lived with his first protectors in Brazil, Geza and Citta Stammer, the Hungarian couple. Mrs. Stammer's testimony to police Friday corroborated some details provided earlier by the Bosserts.

The Bosserts said that Dr. Mengele was responsible for restoring farm buildings, and when the farm was sold the Stammers made regular payments to Dr. Mengele for his half share. They said that he didn't spend anything, that he just worked for his food.

The Bosserts were brought by police to the farm near Joazeiro, 50 miles (80 kilometers) outside São Paulo, where Wolfgang Gerhard, the man whose identity the Bosserts say Dr. Mengele assumed, and his family had lived for eight years before returning to Austria, where he died.

The 20-acre (8-ha) farm set in a remote wooded valley reached by an overgrown track, was visited twice yearly by Dr. Mengele, according to Mr. Bossert.

"He was interested in books in which he appeared and about the place where he'd worked," Mr. Bossert said. He said Dr. Mengele also received medical and biology textbooks from Germany.

Mr. Bossert said the real Gerhard, who had passed on his identity documents to Dr. Mengele and then died at Graz in Austria in 1978 under what he called "funny circumstances," was a Nazi and "a bit fanatic." He was a member of the Hitler Youth, he added.

"He spoke of the Hitler Youth — but everyone participated in that. Even I was a junior leader," Mr. Bossert said. He said Gerhard, who had first introduced him to Dr. Mengele, had been "very astute in testing us out to see if we were the kind of people who might denounce someone. He soon realized that threats wouldn't work; I'm different" than Mr. Stammer, who he

had said had been threatened to keep silent.

In Tel Aviv, an Israeli government spokesman said that while the Brazilian tests are being conducted, Israel "would continue its efforts to catch Mengele and bring him to justice in Israel."

Menachem Russek, head of an Israeli police detail charged with investigating Nazi war crimes, told Israeli radio that he believes that Dr. Mengele is behind the reports of his death in a desperate attempt to stop the worldwide manhunt for him.

The coroner who examined Gerhard after the drowning said he saw no reason to question the victim's age on his identity card — 54 — which would have made him 14 years younger than Dr. Mengele would have been in 1979.

The head of the São Paulo morgue, Rubens Maluf, and the coroner, José Antonio de Melo, said they plan to begin the forensic investigation by cleaning the bones and rebuilding the skeleton. But the only positive identification can come from 1938 dental records provided by West Germany. The remains exhumed Thursday contained seven natural teeth, two dentures and a gold crown or cap.

"If any of these teeth were treated in Germany, then the records could be of great value," Mr. de Melo said.

Brazilian authorities have agreed to allow U.S. and West German experts to work with them to determine if the remains are those of Dr. Mengele.

Family to Break Silence

Rolf Mengele, Dr. Mengele's son, plans to break his family's silence with a statement in the next 24 hours, his secretary said Monday, according to a Reuters report. Mr. Mengele has a law practice in Freiburg, West Germany.

California Plans To Catch Condors

Los Angeles Times Service

LOS ANGELES — The California Fish and Game Commission has voted, 5-0, to recommend that all remaining wild California condors be captured and placed in protective custody in zoos. There may be as few as nine of the birds left in the wild.

The commission's action, taken Thursday in Sacramento, conflicts with a proposal by the U.S. Fish and Wildlife Service to capture three adult condors for mating purposes and release three young captive birds into the wild.

Both state and federal officials said that an attempt would be made this summer to reach a compromise on the plans. The condor population has been declining rapidly as its habitat is taken over by residential, commercial and industrial uses.

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### Indians in New Delhi Protest the Practice of Bonded Labor

Impoverished Indians held a demonstration Monday at the Taj Mahal Hotel in New Delhi to protest the outlawed practice of bonded labor, under which workers pay off debts they or their ancestors have incurred. The protesters used dancing monkeys to contrast their cause with the Indian cultural festival held recently in Paris that featured dancing bears. Another festival is to be held in Washington, which Prime Minister Rajiv Gandhi is to open this week. The demonstration was organized by youths from the opposition Janata Party.

## Ethiopians, Heading Home, Face Famine

By Blaine Harden

Washington Post Service

NAIROBI — Africa's largest tide of refugees has begun flooding back from Sudan into the Ethiopian highlands, where relief officials say there is little food, a rekindled civil war and a likelihood that many who return will die.

For eight months, refugees in search of food streamed from Ethiopia into Sudan at a rate of up to 4,000 daily. Now, lured by rain in Tigre province, more than 50,000 have abandoned refugee camps along the Sudanese border in the past month to begin the three- to four-week walk back to their farms, according to a spokesman for the Office of the United Nations High Commissioner for Refugees.

"This is a spontaneous thing against the advice of relief workers, who are telling these people they are not fit to make this journey, that their children will die along the way, that there is no food when they return," said Hugh Hudson of the UN refugee office in Nairobi.

"These people always told us they did not come to Sudan to stay, only because they were desperate," Mr. Hudson said. With the arrival of rain, he said, "their instinct is to go back for plowing."

The refugees are returning to a no-man's-land struck by famine where rebels of the Tigre People's Liberation Front and soldiers of the Ethiopian Army have been fighting for more than a decade. The Ethiopian military, with

weapons and aircraft provided by the Soviet Union, holds the region's cities and a few major roads, but the Tigrean guerrillas move freely through most of the countryside.

A senior relief official in Addis Ababa said that the government had begun an offensive in Tigre. He added that "security considerations" there had limited the flow of relief aid into the region for months.

Rebels, in a statement from London, said the food situation in Tigre is becoming increasingly desperate. The statement, which blamed the United Nations for failure to move food north from Addis Ababa, said at least 68 peasants have died from eating dirt.

But refugees returning to Tigre are willing to endure the renewed fighting and the possibility of starvation because they no longer can tolerate living in Sudan, according to Mr. Hudson.

"People think Africa is Africa, that all places are the same," he said. "That just isn't true. These Tigreans are mostly Christians from highland, temperate country. It is just as difficult for an Ethiopian in Sudan as it is for a European. These refugee camps are a living hell for the Tigreans."

Daytime temperatures in the treeless desert along the Sudanese border, where six camps sprang up in the past half year to house 235,000 Ethiopian refugees, routinely go above 110 degrees Fahrenheit (43 degrees Celsius). In recent weeks there have been dust storms, one of which flattened half of the tents in a camp of 20,000 refugees and destroyed six food warehouses.

Like all feeding centers crowded with sick and malnourished people, the refugee camps are rife with disease. Relief officials say there is an outbreak of cholera in Wad Kowli, a camp of about 30,000. Vitamin A deficiencies have caused an epidemic of xerophthalmia, an eye disease that dries up the eyeball and causes blindness.

Vitamin C deficiencies have caused scurvy among refugees and are responsible for large numbers of slow-healing sores and abscesses. Christian Tigreans also have found themselves less welcome in the camps, situated in the Moslem

part of Sudan, than their compatriots from Eritrea, most of whom are Moslem and have chosen to remain.

When Tigreans say they are going back, Mr. Hudson said, refugee workers give them as much food as they can carry, extra rations of vitamins and a physical checkup to see if they have "a minimal survival fitness."

"Even when they are advised not to go, we are not able and not willing to physically prevent them," he said. "Fathers take their children out of supplemental feeding programs. These people don't want to split up their families. They insist on staying together even if they have children die on their hands."

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## Tibet Is a Dim Memory For Some Exiles in India

Students Learn Hindi, Enjoy Films But Keep Ancient Buddhist Values

By William Claiborne

Washington Post Service

LEH, India — Jamyang Dorjee was a young boy when he hiked through snow-covered Himalayan mountain passes with his older brother in 1972, arriving in the harsh hills of Ladakh exhausted, dazed and overwhelmed by loneliness.

His parents had been arrested by the People's Liberation Army of China, ostensibly for failure to pay taxes. They have not been heard from since, Mr. Dorjee said he is "pretty sure" that both are dead.

Now a student at the Tibetan Children's Village near here, Mr. Dorjee dreams of going to college in India, of becoming a physicist and of returning to Tibet. But he admits that his memory of home is becoming dim.

"I'd like to go back if I get a chance. Yes, I think I would if that is possible," he said, somewhat unconvinced.

For Mr. Dorjee and more than 100,000 Tibetan refugees who have fled to India, the passage of time is distancing them from their homeland, which on a clear day is visible from many of Ladakh's mountain peaks.

It has been 26 years since thousands of Tibetan refugees followed their leader and god-king, the 14th Dalai Lama, on his final flight to exile in India in 1959 after the Chinese crushed a Tibetan uprising.

Now more than ever before, the refugees face the dilemma of not knowing whether to assimilate into the society that has welcomed and sustained them, or to cling to their traditional culture in the hope that someday they will return to a Tibet that has undergone a vast transformation under Chinese rule.

For the most part, Tibetan refugees have tried to do both. In their schools here and in refugee settlements in southern India, the Tibetans learn Hindi or the prevailing regional language as well as En-

glish, and they have become avid fans of popular Hindi films.

Their food habits have changed, with a growing preference for the Indian staples of lentils and rice; in Tibet rice is cooked only for ceremonial purposes. The traditional Tibetan pigtail virtually has vanished among refugee men, and their clothing styles have gradually adapted to Indian norms, particularly in the hotter climates of southern India.

But according to Namgyal Dorje Teykhang, the Dalai Lama's chief representative in Ladakh, Tibetan refugees have abandoned neither their ancient Buddhist cultural values nor their collective dream of the liberation of Tibet.

"Since 1959, we have hoped for independence for Tibet. If we get it, everyone will want to go back. If we don't, nobody will want to live under Communist rule," Mr. Teykhang said.

Refugee leaders acknowledged that to a large extent the refugees' cohesive will can be attributed to the organizational mastery of the Tibetan government-in-exile, situated in Dharamsala in the hills of Himachal Pradesh about 120 miles (193 kilometers) southwest of here.

The Dalai Lama, as spiritual and temporal leader of all Tibetans, heads a sprawling government bureaucracy there. With considerable assistance from the Indian government, it manages the welfare of the approximately 110,000 refugees scattered in more than 40 agricultural and agro-industrial settlements throughout India. About 8,000 refugees have not yet been resettled.

Although the Dalai Lama's spokesmen sidestep the subject to avoid jeopardizing the Indian government's relations with China, refugees still are trickling across the Chinese border to seek sanctuary in India.

The exile government in Dharamsala, Mr. Teykhang said, recruits virtually all college graduates from among the refugees to oversee an extensive welfare system. The system, with some exceptions, provides Tibetan refugees with material comforts superior to those in most refugee camps elsewhere in the world.

The 510 boarding students in the Children's Village near Leh, for example, live in attractive, solar-heated bungalows, and another 1,200 day students will soon move into a sprawling new school.

Although they are poor even by Indian standards, the industrious Tibetans have built a thriving handicrafts industry that markets goods throughout India and for export. Even in the alien climates of Karnataka and Orissa in southern India, Tibetan farmers have managed well with land provided by the Indian government.

Tashi Wangdi, the Dalai Lama's chief representative in New Delhi, said he doubted the refugees' relative comfort would lead to further assimilation and a diluting of their will to return to their homeland.

"I don't think so. Maybe after a few generations, but not in the foreseeable future," he said. "I have relatives still in Tibet. I cannot forget my brother."



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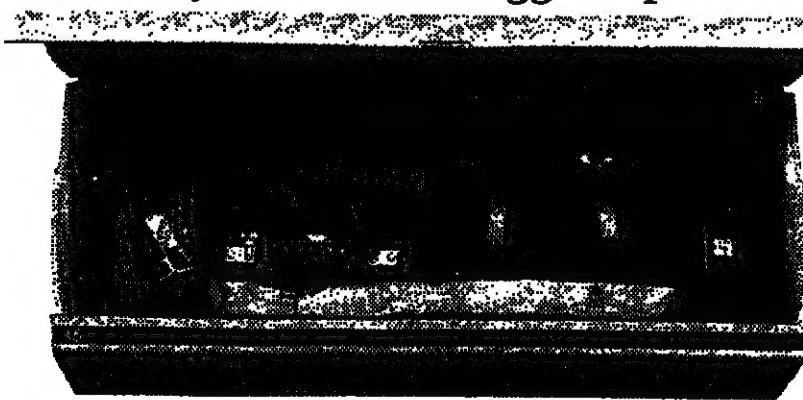
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### 25 Independents Win in Hungary

The Associated Press

BUDAPEST — Independent candidates have scored their biggest gain since the country came under Communist control at the end of World War II, winning 25 seats among the 387 in the Communist-dominated parliament.

Results released Sunday showed 16 losers to unofficial candidates included János Fock, a former prime minister, and Bela Biszku, a former interior minister. Independents had been permitted to run since the 1970s but only one had previously been elected to parliament.

The Saturday elections were the first since a 1983 law established that at least two persons had to run for 352 of the seats. Thirty-five seats are reserved for top government or Communist Party officials. The Patriotic People's Front, the Communist organization that dominates Hungarian politics, nominated two of its own candidates for most seats but voters nominated others in 71 districts.

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## 5 European Sports Ministers To Meet on Soccer Violence

Compiled by Our Staff From Dispatches  
AMSTERDAM — Ministers of sport from five West European countries will meet here Tuesday to try to agree on measures to combat soccer hooliganism, Dutch officials said Monday.

Their agenda was expected to include ways to prevent consumption of alcohol inside stadiums, ensure stricter allocation of tickets at major events and impose heavier fines for troublemakers.

The meeting, an initiative of Joop van der Reijden, the Dutch sports minister, was convened after a riot blamed on rampaging English soccer fans killed 38 persons and injured more than 450 in Brussels on May 29 at the European Cup final between Liverpool and Juventus of Turin.

A spokesman for the Dutch Ministry of Welfare, Health and Culture said that measures recommended here by the sports

ministers of Britain, France, West Germany, Belgium and the Netherlands would be submitted to the 21-nation Council of Europe in Strasbourg, France.

In Brussels on Sunday, a Belgian newspaper quoted an official report as saying that police admit they made a series of mistakes in handling the soccer riot.

La Libre Belgique quoted the commander of the police force, Lieutenant General Robert Bernaert, as saying in his report to the government and Parliament that too few police were inside Heysel Stadium, that officers did not realize fast enough what was happening, did not react in time and did not call for reinforcements.

Some radio appeals from policemen in the stadium also were not heard by their commanders because of the deafening noise at the arena, it quoted General Bernaert as saying.

The tragedy occurred when supporters of England's Liverpool club charged fans of Italy's Juventus team before the game. Many of the victims were crushed when a wall collapsed or were trampled to death in the ensuing panic. Juventus won the match 1-0.

The police detachment on duty was adequate to handle most incidents, General Bernaert reported, but "most were outside the stadium and those inside were too few when riots broke out."

The platoon leader at the stadium called for reinforcements but his squad commander did not hear him because of the noise, the newspaper reported. The squad commander later failed to call for reinforcements.

The section where people were trampled was to have been occupied by neutral fans, but Italian and British supporters were allowed there instead. (Reuters, AP)



Rauf Denktaş

## Denktash Wins North Cypriot Vote

NICOSIA — Rauf Denktaş, the Turkish Cypriot leader, has won a landslide victory in presidential elections in the breakaway state that was proclaimed in northern Cyprus two years ago.

The counting of ballots was completed late Sunday night. Mr. Denktaş received 70.5 percent of the vote, Alpay Durukan 9.2 percent and Ozgur 8.4 percent. Three minor candidates shared the remaining 1.9 percent.

Mr. Denktaş told a jubilant crowd in the center of northern Nicosia: "The world will have to respect the republic founded with your good will and I promise you there will be no agreement in Cyprus without the guarantee of Turkey for your security."

He said in an interview that he was still willing to establish a federation with Greek Cypriots on the island, "but only on a basis of equality."

Turkey invaded and occupied the northern third of Cyprus in 1974 after an abortive Athens-backed coup. Only Turkey recognizes the Turkish Republic of Northern Cyprus. The international community acknowledges only the Greek Cypriot-run government of President Spyros Kyprianou.

**EC Refuses Recognition**

The 10-member nations of the European Community said Monday that they will not recognize Mr. Denktaş's election, United Press International reported from Rome.

In a statement issued by Italy, the current president of the community, the EC members said they "do not recognize the Turkish Republic of Northern Cyprus" and, as a consequence, will not recognize any so-called "constitutional" development on the part of northern Cyprus.

## Marshal Ogarkov Reappears In Soviet With Military Book

By Dusko Doder  
Washington Post Service

MOSCOW — Marshal Nikolai V. Ogarkov, who was removed last September as the Soviet chief of staff, returned to public life Sunday with a new book on strategic issues.

The book, published by the Ministry of Defense, stirred speculation that the 67-year-old marshal had been rehabilitated. Marshal Ogarkov is noted for intelligence, poise, extensive knowledge of strategic doctrine and a basic hard line.

According to a review, the book, "History Teaches Vigilance," says the United States and its military policy and doctrine pose the main threat to peace. Marshal Ogarkov calls on the Soviet Union to increase its "economic and defense potential" to counter U.S. "aggressive designs."

The review, prepared by the feature press agency Novosti, indicates that Marshal Ogarkov's book echoes the propositions of a book he published in 1982, which called for greater preparedness not only by the armed forces and military industries but also by all the sectors of the nation's economy.

The publication of the book left unclear whether this reflected a revival of a hard line in the armed forces or possibly a broader policy shift within the new Kremlin leadership.

ership headed by Mikhail S. Gorbachev.

The new leaders are accusing the Reagan administration, even though it has resumed arms talks with the Soviet Union in Geneva, of planning to destroy the arms control process.

An editorial in the Sunday issue of Pravda, the Communist Party newspaper, accused Washington of preparing to wreck SALT-2, the Strategic Arms Limitation Treaty which was signed in 1979 but has not been ratified.

The only point at issue is what would happen if the treaty were to be scrapped. The United States would be the point of view of "public reaction," Pravda asserted. "Whether the commitments assumed by the United States under the treaty should be abrogated openly and in full or whether this should be done creepingly, step by step."

Marshal Ogarkov was chief of staff and first deputy defense minister for seven years before he was removed abruptly by the leadership of Konstantin U. Chernenko.

There is still no reliable information here about the reason for the dismissal. But some analysts believe that Marshal Ogarkov had opposed a decision by the Politburo to relax its position on resuming arms talks with the United States.

The removal of the marshal came shortly before Foreign Minister Andrei A. Gromyko met in the White House with President Ronald Reagan. Subsequently, after Mr. Reagan won re-election, Moscow agreed with Washington to resume the Geneva talks, which had broken down after the United States began to deploy cruise missiles and Pershing-2s in Western Europe.

Marshal Ogarkov was particularly outspoken in denouncing the new U.S. missiles.

Mr. Chernenko modified the position of his predecessor, Yuri V. Andropov, and the result was a resumption of the Geneva talks in January.

The official announcement last September said that Marshal Ogarkov, who had long been considered a potential successor as defense minister, had been relieved "in connection with transfer to other duties." The other duties were not disclosed.

A short time later, a Politburo member, Grigori V. Romanov, said during a visit to Finland that Marshal Ogarkov had been put in charge of a large western military theater.

There was another report that Marshal Ogarkov had been named commander of a military academy.



Marshal Nikolai V. Ogarkov

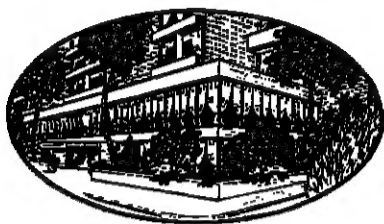
my. In following months, his name disappeared from the press and was even omitted from the list of signers of military obituaries.

One of the few mentions of the marshal's name in the press came last December near the bottom of a list of official mourners after the death of Marshal Dmitri F. Ustinov, the defense minister.

In its 1,800-word review of Marshal Ogarkov's latest book, Novosti praised it warmly. According to the reviewer, Colonel Vladimir Morozov, the book reveals "the aggressive character of the United States military policy and doctrine" and its quest for military superiority.

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## Russians Offered Wallenberg Swap, U.S. Lawyer Says

United Press International

ATLANTIC CITY, New Jersey — Raoul Wallenberg, the Swedish diplomat who saved thousands of Jews from Nazi death camps, was offered to Sweden by the Soviet Union in a prisoner exchange in 1962, 15 years after he was said to have died, said a lawyer for his brother and sister.

In an interview published in the current issue of The Jewish Record, a weekly newspaper, Morris Wolf, a Philadelphia lawyer, said that the trade fell through because Sweden did not offer enough Soviet prisoners in exchange.

The Swedish Foreign Ministry denied Sunday that there had been any such Soviet offer.

Mr. Wolf has sued the Soviet Union in U.S. District Court in Washington on behalf of Mr. Wallenberg's brother and sister, demanding an accounting of Mr. Wallenberg's whereabouts.

Mr. Wallenberg vanished when taken into Soviet "protective custody" in Hungary in 1945. A Soviet announcement in 1957 said that he had died in prison 10 years earlier, a claim that has been rejected by some Western investigators.

## Queen Joins Effort in U.K. To Evict Syrian

Reuters

LONDON — Queen Elizabeth has joined an effort to evict a Syrian diplomat alleged to be illegally occupying a British family's apartment. Foreign Office officials said Monday.

They said Ahmed Walid Rajab, invoking diplomatic immunity, has ignored a court order to leave the three-bedroom apartment, which he rented from John Chaffey for six months in 1982. Mr. Chaffey, married with two young children, said his family had been homeless for nearly three years and had spent thousands of pounds trying to repossess the apartment.

Mr. Chaffey finally wrote to the queen. Officials said she asked the Foreign Office to act to remove Mr. Rajab, an adviser on Arab League affairs at the Syrian Embassy.

Officials said the Syrian ambassador had been called to the Foreign Office and urged to resolve the issue.

## U.K. Missile Protesters Held

Reuters

ALCONBURY, England — The police said Monday they arrested 12 anti-nuclear protesters who broke into an air base near Cambridge used by U.S. forces and painted slogans on British bombers.

Alconbury will be a support base for 64 U.S. cruise missiles to be deployed at nearby Molesworth in 1988.

## Long-Range Problems Face Computer Industry

(Continued from Page 1)

home to roost a few years later," said Simon Ramo, a founder and director of TRW Corp., a diversified manufacturer with interests in computer services.

On top of the oversupply has come a slowdown in the growth of demand for computers and other electronic equipment. For instance, sales of personal computers, which about doubled year after year for several years, are expected to increase no more than 30 percent this year and may not increase at all. Semiconductor sales are expected to drop at least 20 percent as inventory excesses are worked off.

Some causes of the slowdown in demand are short-term. Customers may be waiting for new products that are planned but not yet available. Sales of mainframe computers are down because customers are awaiting delivery of new IBM models later this year. And personal computer buyers may be waiting for new, more powerful machines such as IBM's PC-AT and rumored PC-2.

Yet there are other, more fundamental shifts as well. For one, perhaps customers simply cannot absorb any more computers.

"The user population was like a starving man sitting down at a banquet," said Aaron Goldberg, an analyst with International Data Corp., a market research concern. "They've feasted for two years and now can't eat any more."

There is a growing realization among computer companies that they have not necessarily been satisfying the customers. Many people use their computers for only one task rather than the multiple tasks that computer makers had envisioned. As a result, sales of software have been far below expectations.

The demand for computers is expected to grow for a long time. But the easy sales are behind the computers to people less eager for them.

Another thing that may take years is the industry's recovery from a shakeout caused by too much investment in the early 1980s. The amount of money invested in young enterprises, including many computer companies, through venture capital or in stock offerings, rose to \$19 billion in 1983 from \$600 million in 1977, according to Blake Downing, an

analyst with Robertson, Colman & Stephens.

Most of that money, it is now conceded, went into companies that did not advance technology but merely offered variations of other companies' products. "It was a very huge waste of money," Mr. Downing said.

According to Hambrecht & Quist, an investment banking firm specializing in technology, the number of American companies making microcomputers rose to 47 at the beginning of 1985 from eight in 1981.

Microcomputer software companies increased to 280 from 34, producers of hard-disk drives, to 54 from 11 and local area network companies, which make the systems that link computers at high speeds, to 61 from nine.

Even more troublesome, however, is foreign competition. This is particularly true in semiconductor, where the Japanese and now the South Koreans are making a determined effort. The Japanese have virtually captured the world market for dynamic RAM, or random access memory, chips, and U.S. manufacturers, frustrated at being unable to sell in the Japanese market, are at a boiling point.

The U.S. semiconductor industry, which used to have only an occasional slump, has performed poorly in three of the past four and a half years.

Chip prices have plunged. The chips inside an IBM PC-XT computer, which would have cost \$319 last August, according to Datacube, today would cost \$110. The chips inside Apple's Macintosh model, with 512,000 characters of memory, would have sold for \$500 last August; now they would fetch a mere \$95.

The excess of domestic and foreign competition also points to another change that will make it more difficult for computer companies to prosper in the future.

The computer industry's prospects do not seem likely to improve until the end of this year at the earliest.

A slump will persist into 1986 for several segments of the business, according to some experts. And if the overall U.S. economy gets worse, the industry's problems could last even longer.



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## ARTS / LEISURE

## British Rock's New Countertenor: 'Is That My Voice?'

By Michael Zwerin  
International Herald Tribune

MONTREUX, Switzerland — As a rock group of three working-class young men who made their homosexuality a public affair and the subject of their songs, Bronski Beat has sold 2.5 million units, including an LP and three hit singles on the British charts in a little over a year.

Bronski Beat consists, or rather consisted, of Steve Bronski and Larry Steinbach on synthesizers, and Jimmy Somerville singing. Their performance here in May for the "Rose d'Or" festival was Bronski's last beat.

The fact that they have already broken up as a group is an example of how fast fame and fortune can arrive in British rock, and how traumatic that experience can be for young people whose previous working experience consisted of collecting unemployment benefits.

But countertenors are very much the style nowadays — Michael Jackson and Prince, for example — and Bronski's self-taught vocalist Somerville has a potential to equal the grace and artistry of the famous baroque countertenor Alfred Deller, should he decide to work at

developing his talent. Unfortunately, this is rather unlikely — the pop music industry rewards image before, and usually instead of, artistry. A dictum in the milieu goes, "Too good is no good." And Somerville has a perfect hermaphroditic image for this year's trend. He has already signed a recording contract under his own name.

With the first flush of success, Bronski and Steinbach had purchased expensive living quarters in London, while Somerville, who still lives in two small rooms in a project in Kennington, reacted to stardom with "shame and disgust." "It came too fast. When we signed a recording contract we were still living in a Camberwell squat. All of a sudden everything changed, it was all about money. It stopped being fun."

All three insist there is no animosity, that the split was due to the pressure of "getting caught up in the machinery of success," as Somerville explains it.

Although Somerville objects to the treatment he has received from the Fleet Street press, he asked for it, which he tacitly admits. "Our songs are very honest, very blatant. We don't pretend to ourselves or to

anyone else. Perhaps we did not think enough about the price of honesty. Maybe it backfired."

The list of minimum legal ages for homosexual encounters in countries around the world on the jacket of their album, "Age of Consent," was deleted from the U.S. release.

"But it backfired in the sense that we lost control of it," Somerville speaks with a Scottish brogue so thick it requires frequent translation: "It was distorted into something we didn't want it to become. The press and promotion people made us out to be a gay band instead of gay members of a band. Not one article talked about my voice."

He has a natural, unforced voice, and an instinctive sense of phrasing and intonation. His friend Richard Coles, a schooled saxophonist from the Midlands with whom he is forming his new group, pointed proudly to Somerville and said: "He's got a range of almost four octaves — up to high C. The Institute of Contemporary Arts offered him the role of the Queen of the Night in a production of 'The Magic Flute.'"

Somerville shook his head with the madness of it all: "Maybe in 10 years, I'm not even a princess yet. You know I never listened to anything but disco. I hear my tapes and say, 'Is that my voice?' It's slightly embarrassing."

Leaving his parents' home in Glasgow at the age of 18 (he is 23 now), Somerville came to London, and: "The first thing I did was to go to a gay bar in Ears Court. I'd never seen anything like all the sex shops and sleaze. It was very exciting. But I was scared and lonely as well."

There is nothing blatant about Somerville's appearance. He sang here in the same cardigan sweater he wore on the street, his hair is cut working-class short, he does not wear makeup. This lack of panache has given birth to a new style in London, a sort of lack of style. London gays are beginning to cut their hair like his, to wear jeans and sweaters and avoid the outrageous image of yesterday's heroes like Boy George. Even Boy George has cut his hair.

Teen-age girls scream when Somerville sings, and Bronski's audience had a large smattering of straight young males. On stage between vocals Somerville moves and



Singer Somerville: "The price of honesty."

smiles with ease and grace, and it is obvious that whatever that elusive charismatic "it" consists of, he has it.

He and Coles are off to New York this summer to record their new project, including originals and some standards associated with Billie Holiday. It seems fairly

obvious that his is a talent that has the potential to grow beyond the limited appeal to one group or inclination he himself has temporarily imposed on it. But in the meantime, he still thinks of himself as reflection of his media image: "It's exciting to be England's best-known gay."



Marie Galbraith: Snow in July, jeans at Rungis.

## Envoy's Wife in Paris: A Mutual Love Affair

International Herald Tribune

PARIS — Before Marie Galbraith came to Paris in 1981 as the wife of the U.S. ambassador to France, she had been — not necessarily in this order — a social secretary, a fashion magazine editor, an ad director, a photographer, a real estate saleswoman, a free-lance fashion stylist and Peter Ustinov's Girl Friday.

All this, she feels, accounts for her ability to cope with being an ambassador's wife, a job that has involved not only entertaining an average of 20,000 people a year but

"Americans have this wonderful generosity and simplicity. They are genuinely welcoming. It's a wonderful marriage," she added, "because French and Americans also have a lot in common. They're both practical and outspoken."

The French loved her back. Hundreds of letters, both personal and professional, poured in after the announcement of the Galbraiths' departure. The couple gave three

grand dinner parties at which they effortlessly mixed members of the government and the opposition. At one of them, Prime Minister Laurent Fabius and the ambassador

exchanged warm and friendly words that seemed to go far beyond the usual niceties said at such occasions. The Galbraiths, who were entertained by countless French friends, also had a small, private dinner for former President Valéry Giscard d'Estaing. Then Mrs. Galbraith's favorite designer, Guy Laroche, gave a small dinner party in his kitchen-bistro "with just us and the Chiracs, the Gregoris, the Peckes, Line Renaud and it was just wonderful."

Mrs. Galbraith also had a personal rapport with small artisans, with whom she dealt one-to-one. Through redecorating the embassy, she got to know the carpenters, upholsterers and electricians. French friends took notice of the way she did things. "I loved it when they came here and said something about the flowers or the decor. They took a personal interest in this house. They'd say things like: 'You're our ambassadress.' I also noticed that after they came here, next time, they'd have le pique-nique and not butlers with white gloves."

"Things have changed considerably since 1953," she said, recalling a period when the effects of World War II were still acutely felt in France. "Then, everybody was still on bicycles and you couldn't get a hot bath. When I gave a cocktail party, I had to get permission from the commissaire de police. Girls from good families had to go to the movies properly escorted by a chaperone, and young girls did not have jobs in France."

Today, Mrs. Galbraith believes in doing a lot of things herself. Touring the embassy's residence, she said: "The first thing I did when I arrived here was to put on my jeans and go to the Rungis flower market."

## A Last Hurrah for Fools At Copenhagen Festival

By Gunilla Faringer

COPENHAGEN — The Danish capital was invaded by musicians, dancers, clowns, street actors and acrobats Sunday for the opening of the fifth "Festival of Fools."

Eight hundred musicians and singers, ranging from big bands to rock groups, turned the city into one big concert hall in a spectacular event called "City Waves," staged with bicycles, boats and balloons by the American composer Charlie Morrow.

Morrow described the performance as "a reflection of the universal consciousness, with no one

able to see it all, but everyone a part of it."

The organizers of the monthlong festival invited 33 experimental theater and dance troupes from 14 countries. They will concentrate on innovative drama and multimedia shows. There will be "fools" all over town, and spectators will watch some dockside performances from sightseeing boats.

A British group calling itself IOU, made up of artists, sculptors, architects and musicians but not a single actor, brought a wordless show of dance, puppets, mask, machines and even railroad cars into the dock area. According to the group's Louise Oliver, the aim was to demonstrate what happens "when something well-known collides with something unknown."

An Australian known only as Stelarc stages an "event" in which he dangles naked, from hooks piercing his body, in settings that change from performance to performance.

Four exhibitions with the joint name "People and Space" combine architecture, video, graphic art, photography and live performances in line with the festival's declared goal of crossing the borders between forms of artistic expression.

A large part of the festival is devoted to modern dance and ballet. Among the youthful, experimental groups is Bill T. Jones-Arnie Zane & Co., an American troupe, which bases its choreography on black music and dance. Min Tanaka & Mai-Juku from Japan offer their interpretation of Shakespeare's Macbeth, including nude scenes.

The festival, held after a two-year lapse, is dependent on funding from the city of Copenhagen and private sponsors. It attracted thousands for the opening event, but its organizers, Trevor Davies, said it was the last festival of this type.

"This is the best, but also the last, Festival of Fools," he said. "We cannot do it better, and therefore have to find new, astonishing and provocative ways to avoid getting stuck in past successes."

## Shopping Center In Houston Aims At Hispanic Buyer

New York Times Service

HOUSTON — El Mercado del Sol, a 17-acre (seven-hectare) shopping center billed as "the nation's largest Hispanic theme festival center," has opened here.

The center advertises itself as "a short trip to Mexico," but it is not primarily a tourist attraction. Instead, it aims at the fast-growing Spanish-speaking population, which has become a significant part of the economic, social and political life of Houston, the country's fourth largest city.

In Houston and surrounding Harris County, the number of residents of Hispanic heritage is officially estimated at just over half a million. But other estimates put it at from 800,000 to 1.2 million. The total population of Houston's metropolitan area is more than 3 million.

The Hispanic population consists of not only Mexican-Americans but also immigrants from the Caribbean region and illegal aliens. They have shared in the recent prosperity common to the Sun Belt states.

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## Paper Airplane Champion

United Press International

SEATTLE — John Vincent, 33, won the World Indoor Paper Airplane Championship when his entry landed closest to the center of the Kingsdome stadium. Vincent, a Qantas Airways employee from Sydney, Australia, won a trip for four to Disney World Seattle.



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# Herald Tribune

Published by The New York Times and The Washington Post

## A New Chance With India

When Rajiv Gandhi arrives in Washington on Tuesday for his first visit as India's prime minister, there will be ample reason for good will. There are no real quarrels between the most populous and the most powerful of the world's democracies — no hard disputes over territory, trade or ideology. Yet a granule of sour suspicion will linger in the air, the legacy of a long-strained relationship.

The time is right for a frank examination of those strains. Mr. Gandhi is the first Indian prime minister to come to office after independence in 1947. Inheriting the office after his mother was murdered last October, he went on to earn it in an impressive landslide in December. He arrives when America's interest in India is at high tide, thanks to films, television and the coast-to-coast cultural festival he came to inaugurate.

This sympathy is reciprocal. The Bhopal disaster did not ignite anti-American riots, only lawsuits against Union Carbide Corp. Mr. Gandhi favors more American investment, and his talks with President Reagan are expected to confirm an agreement to ease technology transfers. So why do countries that officially speak the same language so often talk at cross-purposes?

The short answer is a different perception of what constitutes evenhandedness. The abiding Indian lament is that Washington repeatedly tilts to Pakistan, a dictatorship thirsting to

match India's nuclear capability, an adversary suspected by Indians of abetting Sikh separatism in the Punjab. The abiding American lament is that India too often tilts to Moscow, as typified by Mr. Gandhi's excuses for the Soviet invasion of Afghanistan.

Both complaints have merit. In its anxiety about Pakistan's exposure to Soviet operations in Afghanistan, for example, Washington has favored it with a generous \$3.2 billion aid package, including advanced aircraft that might one day be directed against India. But Prime Minister Gandhi did not invite sympathy when he recently repaid his Soviet hosts for their aid to him with the astonishing judgment that 120,000 Soviet troops were Afghanistan's "invited" guests.

A true resolution of these reciprocal complaints would find India finally waging a sustained campaign for Soviet withdrawal from Afghanistan, in return for which the United States should indeed draw back from its support for Pakistan. Both countries may be dug in too deep to realize such a bargain, and India's affinity for the Soviet Union has its own logic, no matter who is prime minister.

But if these differences cannot be quickly resolved, Rajiv Gandhi addresses them with less impatience than his formidable mother. At the least, his visit should open a more equitable chapter in a contentious book.

— THE NEW YORK TIMES.

## Strings on Argentine Loans

Argentina, struggling to cope with its foreign debts, is now working out a new agreement with its lenders. These negotiations try to strike a balance that has more to do with political values than with finance. Argentina is a democracy, but a recently re-established democracy, one not yet as firmly rooted as its friends hope it will become. It is also a divided society with a tradition of instability. The government needs new loans to help carry the interest on past debt and to maintain the flow of foreign trade on which the country's prosperity depends. What conditions ought to be attached to those loans?

The inflation rate in Argentina last month was about 25 percent for the month — which works out to over 1,000 percent on a yearly basis. To lend unconditionally to a country with unrestrained inflation merely finances more consumption and more capital flight. To raise standards of living and to reduce the debt remains impossible as long as the inflation rate continues at that level. Foreign lenders are justified in making their loans contingent on action by the Argentine government to lower the inflation rate. The lenders want to press hard enough to ensure visible progress. But they cannot press so hard that they damage the government and the cause of democracy.

The key negotiator among the lenders is the International Monetary Fund, for it sets the conditions. Governments and banks will then

make their loans contingent on the IMF agreement. At the end of last year a group of banks had undertaken to lend Argentina \$4.2 billion, but disbursement halted in March when the IMF declared that Argentina was no longer complying with its earlier agreement.

The current negotiations are another attempt to find a way to join economic necessity to political possibility. Why is it so hard? Much of it involves cutting the budget, which means cutting subsidies and social benefits. U.S. citizens do not have to go as far as Argentina to find an example of a democratic government that refuses to bring taxes and spending in line with each other.

When Argentina and the IMF have arrived at their agreement, the United States will support it with an immediate loan of perhaps \$450 million. That is a sensible and useful decision by the Treasury Department. To help Argentina avoid default serves both Argentine and U.S. interests. The impact of a default on the American banking system would be manageable, but not without significant costs.

The success of negotiations, agreements and lapses is an accurate indicator of the strains on the indebted countries. The Latin debt crisis has by no means been resolved. The real hope lies in the resumption of steady economic growth throughout Latin America. That is why the IMF's conditions are crucial.

— THE WASHINGTON POST.

## Other Opinion

### Defense Wastes: A Secret Weapon

Scandals about defense contracts are hardly newsworthy in Washington political life. But recently there has been an unusual profusion of them. From the \$600 abstrusities to troubles at General Dynamics, the underlying question is the same: How can the U.S. government regain control of what President Dwight Eisenhower almost 25 years ago first called the military-industrial complex?

In the last resort, no amount of rigorous control procedures can have a reliable effect unless there is a method of knowing that \$7,000 is too much to pay for a coffee-making machine. There is such a method, it is tried and tested, and it is called competition. Only through competition can the Pentagon have a reasonable chance of avoiding the scandals currently dogging the U.S. defense industry, and of surviving congressional budget-cutting without a loss of military security.

— The Financial Times (London).

### Sri Lanka Peace Plan Is Needed

A week has passed since President Janin Jayawardene of Sri Lanka and Prime Minister Rajiv Gandhi of India announced agreement in New Delhi to take steps to ease tension in Sri Lanka caused by Tamil demands for a separate state. But the Delhi communiqué failed to spell out ways in which peace could be restored to the troubled island nation.

The matter is both urgent and delicate: urgent because the bloodshed in Sri Lanka is slowly propelling that country toward a ruinous civil war and because it is damaging the economy; delicate because the conflict has affected Sri Lanka's relations with India.

which accused Colombo of discriminating against the Tamils. Sri Lanka, in return, has demanded that India stop Tamil separatist guerrillas from using secret bases in its southernmost state as a springboard to attacks, something New Delhi claims is not happening.

Any settlement is going to be extremely difficult because agreement would have to be reached among a host of diverse groups that are hostile to each other. And President Jayawardene knows full well that if he gives way on Tamil demands he will face a backlash from the Sinhalese majority in his country.

The most urgent task is to put a stop to the bloodshed. And if the meeting in New Delhi has paved the way for measures that will achieve an eventual cease-fire, then it will have marked a milestone in regional diplomacy and been truly worthwhile.

— The Bangkok Post.

### Sanctioning South Africa

The U.S. House of Representatives has approved a series of economic sanctions against South Africa. Coming after the Senate Foreign Relations Committee adopted a similar stance, the House move marks a brutal failure of President Reagan's policies. The efforts of the White House and Secretary of State George Shultz to defend "constructive engagement" — [diplomatic] support in exchange for progressive dismantling of the apartheid system — failed to convince the congressmen, who showed they were responsive to public opinion. Americans believe the United States can no longer appear as the best friend of an unacceptable regime.

— Le Monde (Paris).

## FROM OUR JUNE 11 PAGES, 75 AND 50 YEARS AGO

**1910: Western Union Named in Fraud**  
WASHINGTON — The Federal Grand Jury investigating charges of alleged bucket-shop frauds returned forty-two indictments against the Western Union Telegraph Co. [on June 10]. The indictments charge Western Union with having supplied the bucket-shops with a rapid wire service which enabled some outside brokers to obtain Stock Exchange prices before brokers in good standing were supplied. In April, twenty members of firms [in various U.S. cities] were arrested in connection with these frauds. Attorney-General Wickersham took this step in order to stop the immense business done illegally by bucket-shops, whose operations are of a gambling nature.

**1935: A New 'Gold Rush' in Canada**  
OTTAWA — Canada has begun her latest "gold rush," a scientific survey stretching from Nova Scotia to the Yukon, to find gold and other mineral deposits. The vanguard of an army of nearly 1,500 amateur and professional prospectors has left for the Yukon, famous for many gold "strikes." They are being followed by about 200 other parties, who will survey the far corners of the country where white men have seldom trod, to map the mineral deposits. It is expected the search will last a year and cost \$1,000,000. Canada is the second largest gold producer in the world, with an output of \$100,000,000 annually. Officials believe the survey will enable this to be greatly expanded.

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## Cutting Military Spending: It Can Be Done

By Paul C. Warnke

WASHINGTON — The momentum of the Reagan administration's military buildup finally has been slowed. Congress has made clear that the once-sacrosanct defense budget must bear a portion of the deficit-cutting burden. With the overall spending level chosen, the crucial process of deciding what and where to cut begins. How these reductions are made will affect the shape and direction of national security for the rest of the century.

Unfortunately, the easiest, least politically painful cuts will not correct the buildup's fundamental problem — buying too many weapons too quickly. Traditionally, Congress has shied away from canceling weapons systems in favor of reducing the funds to man and maintain them. This yields savings more quickly because such funds are spent immediately, whereas weapons production costs are spread over several years.

Yet because the Reagan program concentrates on arms procurement (spending has more than doubled in the last five years) genuine attempts to restrain military costs cannot succeed unless weapons programs are cut. Otherwise, like a sponge temporarily squeezed dry, the defense budget will grow back to its original size as earlier commitments to purchase hardware come due.

Ironically, debate fails to focus on the real alternative — the United States could have more capable forces at a substantially lower cost. Investing in improved conventional capability to meet the most realistic threats, and thoroughly weeding out redundant or misdirected weapons programs, would provide better defense and significant savings.

To demonstrate this, the Committee for National Security, a public-policy group of which I am chairman, has prepared such an alternative. Using data compiled by William Kaufmann of Harvard University, a defense budget adviser to Republican and Democratic administrations since the 1960s, the study offers an alternative five-year defense plan that would save billions of dollars while enhancing military strength.

Beefing up conventional forces requires two important changes

from the current program. One is increased funding for the National Guard and all military reserves. Without a return to the draft, they are the only source of manpower in the face of the continuing shortage of 18- to 22-year-olds.

Second is a shift from buying cargo aircraft to buying fast transport planes. The administration's programmed investment in airlift prepares the United States to respond quickly only to a crisis in Europe. Fast seafight could deliver more at lower cost, and enable the United States to meet simultaneous contingencies in Europe, the Middle East and Korea.

The committee also recommends restarting production of A-10 aircraft, to give the army better close air support during a land battle's crucial early stages. Even accepting the administration's perverted view of the external threat the country faces, U.S. forces could be substantially better shaped and prepared.

The savings would result from the concerted effort to restore order to

the defense budget. Some ill-conceived or misdirected programs must be scaled back or canceled.

Two examples are the overblown, oversold Strategic Defense Initiative that calls for a space-based anti-missile defense, and the 600-ship navy. Holding SDI funding to fiscal 1985 levels would ensure necessary research but avoid the risk of stimulating an offensive and defensive arms race that would leave the United States with more nuclear arms and less security than before.

The navy has failed to make the case for expanding from 12 to 15 aircraft carrier battle groups: 12 provide ample means to protect sea lanes and, when advisable, to project American power in the Third World. Over the next five years, injecting realism into these two programs could save \$83 billion from the administration's proposals.

Further savings would result from eliminating weapons systems with overlapping missions. Haunted by its vision of awesome Soviet military might, the administration

has concentrated on buying as many weapons as quickly as possible, but has shown only minimal concern for whether these new systems are really necessary.

The administration also appears enamored of the supposed symbolic value of a big defense budget to impress the Russians with U.S. resolve. This apparently carries more weight than curbing the services' penchant for each developing its own weapons for its own purposes, regardless of the resulting duplication. From the numerous systems for North Atlantic Treaty Organization air defenses to the nuclear programs for "hard target" capabilities, the budget landscape is increasingly littered with redundant weaponry.

Cancelling the least effective of the duplicative systems would save billions and, more important, provide the basis for a sound and sustainable military program.

The writer, director of the U.S. Arms Control and Disarmament Agency in 1977 and 1978, contributed this view to The New York Times.



## Forgotten East Timor Deserves a Voice in Its Future

By Jonathan Power

LONDON — Last week more than 400 parliamentarians from democracies in many parts of the world published a declaration supporting the right of the people of East Timor to be represented at talks being held between Portugal and Indonesia on the status of the island.

Given a recent history of fading public support for the East Timorese, the declaration was timely. Indonesia invaded East Timor, a Portuguese colony in the Indonesia archipelago, on Dec. 7, 1975. It was a huge invasion involving bombers, paratroopers and marines. The army wreaked havoc; there was indiscriminate killing and rape.

Three months later the Indonesian vice governor admitted that 60,000 Timorese had been killed — more than one-tenth of the population.

While many Western nations complained about China's invasion of Tibet, or supported British military action after Argentina's attempted grab of the Falklands, protest over East Timor has been low key. Yet in contrast to China and Argentina, Indonesia is an invading power with no historic claim to the land it invaded. For 400 years East Timor was under Portuguese control. It was never part of the Dutch empire or of the archipelago's political structure. The Indonesian claim is as farfetched as would be a Cuban claim to Jamaica.

As late as 1974, the Indonesian foreign minister, Adam Malik, said that "the independence of every country is the right of every nation, with no exception for the people in Timor." But events changed Indonesia's mind. In 1974, the Salazar dictatorship in Portugal was overthrown. At the same time there were bitter internal struggles for power in

East Timor, and the victor, the radical Revolutionary Front for an Independent East Timor, or Fretilin, unilaterally declared independence. These were the triggers for Indonesia's invasion.

In 1977, faced with significant resistance, the Indonesians launched a large-scale aerial bombardment of villages in the mountainous interior. Hundreds of thousands of villagers were forced out of their homes and down to the coastal plains where they were herded into "strategic camps." Only after two years of persistent lobbying were international relief agencies allowed to provide aid and services in the camps, which by then had about 300,000 inhabitants.

Professor Leo Kuper of the University of California at Los Angeles, who is considered a leading authority on mass killings, describes what happened then as "genocide," such was the degree of unbridled brutality and so large were the numbers who died — up to one-third of the population.

The initial response at the United Nations seemed promising. A majority of General Assembly members voted against Indonesia's takeover and demanded its withdrawal, saying East Timor was still legally part of Portugal and had a right to self-determination and independence.

Over time, however, Western and Soviet-bloc enthusiasm for the resolution has waned. It is the Third World nations that have incurred the wrath of Jakarta by continuing to insist on Indonesian withdrawal. But even they have become more di-

vided: It has been three years since they have mustered a majority on the issue in UN votes.

The United States and some West European countries supply arms to Indonesia and see its government as a force for pro-Western stability in a potentially volatile corner of the globe. Australia, 300 miles (480 kilometers) to the south of East Timor, has gone a step further, recognizing the island as "part of Indonesia."

In 1979, Professor Kuper says, the Soviet bloc began to change its line. When the Russians and their allies were vainly trying that year to unseat the Cambodian representative at the United Nations in favor of the Vietnamese-sponsored Heng Samrin government, an attempt was made to woo the Indonesian vote with the promise that support for the East Timorese would be dropped.

Interestingly, the Vatican has been a pillar of support for the island's people. It has resisted pressure from Jakarta to make the local church part of the Indonesian bishops' conference.

But Indonesia is winning the war of attrition. Votes against it in the United Nations are falling off. The ball has been passed to the UN secretary-general, Javier Pérez de Cuellar. He has been asked to chair talks between Portugal and Indonesia aimed at finding a settlement. These negotiations have dragged on for more than a year now.

This is why the declaration of the Western parliamentarians is important. Without the participation of a representative of the East Timorese, the talks simply lack credibility.

International Herald Tribune.  
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## When Six Justices, and Ishmael, See Harm in Silence

By George F. Will

WASHINGTON — Melville's "Moby Dick" is either — readers differ — a great novel about God or a boring treatise about whaling. But Chapter 89 is about law and is relevant to the question of why today's U.S. Supreme Court, which does not suffer in silence, suffers from an onerous work load.

Last week the court chewed yet again on the First Amendment's Establishment Clause, that simple injunction ("Congress shall make no law respecting an establishment of religion...") that the court has contrived to make absurdly complicated.

Melville praised the terseness of the whalers' code, which could be expressed in a barpoon's proverb: "A fast fish belongs to the party that fasts it." And: "A loose fish is fair game for anybody who can soonest catch it." But such concision left room for ample contention. Was a whale "fast" (attached) when just bearing a symbol of possession? Was a whale "loose" if dragging an empty boat?

The generalness of many of the Constitution's provisions guarantees for the court a constant flow of work. The Constitution's open-textured language has allowed it to suit both a simple agrarian and a complex industrial nation. But the court has kept busy deciding, for example, what constitutes "interstate commerce," or how the phrase "unreasonable searches" relates to electronic surveillance. The Establishment Clause, reasonably read, is devoid of complexity. It means government must not be partial to a particular religion or sect.

But last week a litigious Alabamian persuaded six justices to rule that Alabama violated the Constitution with a law authorizing a minute of silence in public schools "for meditation or voluntary prayer."

A moral objection to "voluntary spoken prayer" in schools is that it can be neither really prayer nor truly voluntary. It must be this liturgical gruel to give no offense to any sect, and children will feel coercive peer pressure to participate. But what injury does a moment of silence do? The only "injury" is to a few litigious adults — self-appointed thought po-

lice — whose injury is the annoyance they feel about what might be in a child's mind, or a legislator's.

Had Alabama deleted the last three words in the phrase "meditation or voluntary prayer," the court probably would have said the law passed constitutional muster.

Indeed, the man who brought this suit (call him Ishmael, because that is his name) said he did so only because he detected a suggestion that prayer is the "preferred activity" during the silent minute.

The justices could devote even more time to complaining about their case load if they would just use Will's Generic Opinion. It is a one-sentence opinion applicable in 99.99 percent of all contemporary cases arising from government action touching religion: "The practice in question does not do what the Establishment Clause was intended to prevent — impose an official creed, or signifi-

cantly enhance or hinder a sect — so the practice is constitutional and the complaining parties should buzz off."

But in 1971, the court decided, contrary to the clear evidence of the Framers' intentions, that the Establishment Clause requires government to be punctiliously neutral, not between religious sects but between religion and secularism. So the court devised a rancorous three-part test: Government action touching religion is presumptively unconstitutional unless it has a secular purpose, and its primary effect neither advances nor inhibits religion, and it does not foster excessive entanglement of government with religion. Given that formula, the outcome of the Alabama case was, perhaps, predictable.

Still, Justice John Paul Stevens, writing for the majority, took 23 pages to explain that Alabama's purpose was not pristinely secular and hence the law violates the convoluted

misconstruction with which the court has replaced the unambiguous conclusion of the Establishment Clause.

The court's previous triumphs regarding the Establishment Clause include a ruling that it is constitutional to use public funds to buy textbooks for religiously affiliated schools, but unconstitutional to buy other instructional material, such as maps. That harebrained hair-splitting caused Senator Daniel Patrick Moynihan to throw up his hands in Celtic eloquence and ask: "What about atlases?"

The court has said legislatures may pay chaplains, but now a suit is pending that seeks to prevent the use of public funds to print chaplains' prayers, presumably because exposure of nonlegislators to the chaplains' words would "establish" religion. I hope such cases inundate the court until the justices fall on their knees (not on government property, of course) and pray for relief from the consequences of their cleverness.

Washington Post Writers Group.

## LETTERS TO THE EDITOR

### Violence in the Stands

Regarding the opinion column "Soccer: The British as Europe's Bad Children" (June 6) by Anthony Burgess:

As a Briton living abroad I too was shaken by the Liverpool supporters' barbaric behavior in Belgium. I was equally stunned by Mr. Burgess's hypocrisy. Having written the repulsive "Clockwork Orange," he has contributed more than his share to further the cause of mind violence.

PAULINE LECOUR, Paris.

Mr. Burgess knows full well the difference between English and British. So too, do the Welsh and the Scots. So too, fortunately, do the European authorities who banned English clubs. The English are British; not all British are English.

T. CRAIG SINCLAIR, Brussels.

Has no one considered that the fans' aggressive behavior might be

linked to alcohol consumption? In fact, one report said that the hostilities in Brussels began with the throwing of beer cans. Is it conceivable that, on the day of an important match, local authorities might close pubs and liquor outlets, and stop the sale and import of alcohol in the stadium? The force of other contributing factors — such as seating arrangements and "ideology" — might then be diluted to the benefit of all.

ROBERT F. KESER, Singapore.

Regarding the column "One Englishman's Reaction: Shame at the Inevitable" (May 31):

I agree with sportswriter Rob Hughes when he says that British authorities have been too lenient with hooligans for too many years. I also applaud his commendable restraint in not saying, "I told you so."

CHARI COANE, Milan.

### Ivory Tower Babbles

Regarding "Foreign Professors in U.S. Classes: English Becomes a Barrier" (June 5) by Edward B. Fluke:

Of course foreign-born teachers must possess an adequate command of English to make themselves understood. But, as an American who has spent many years in institutions of higher learning, at both Harvard and the Massachusetts Institute of Technology, I can assure you that foreign instructors do not hold a monopoly on pedagogical ineptitude. Native American professors can also be incomprehensible, authoritarian, and inadequate in their didactic and personal styles. Shouldn't they, too, be required to undergo training to become teachers, or be selected for the laboratory rather than the classroom? Ultimately, universities must hire on the basis of an individual's qualities as a scientist or a scholar, rather than on the basis of his nationality.

## Food for All But Those Who Need It

By Flora Lewis

PARIS — The world has reached an absurd impasse on food supplies. Of all the crazy problems people have created for themselves, nothing seems so preposterous as the maldistribution of life's essentials.

Last year, taxpayers in the United States and Europe provided \$36 billion in subsidies for farmers — \$19 billion in the United States and \$17 billion in the European Community — according to Maurice Williams, head of the UN World Food Council.

Now the United States is going to give Algeria a million-ton "bonus" of grain in order, as Agriculture Secretary John Block says, to "buy the market." Several other countries are being considered as beneficiaries of the U.S. program to regain its share of sales in competition with Europe.

It is cheaper to ship food than to store it. The United States wants to cut its surplus and drive the Europeans to negotiate an end to subsidies. The fact is that farmers in the United States and Western Europe produce too much more than the rest of the world can buy, so they sell hard.

Meanwhile, many millions go hungry and infants die of diseases related to malnutrition. Food aid to Africa has doubled in two years, from 3.5 million tons in 1983 to 7.5 million this year, because of famine.

But while aid prevents immediate starvation, it only compounds the real trouble. Mr. Williams, who is directing the Food Council's ministerial meeting here this week, said there was too much aid and too little attention paid to stimulating African production. Every city on the continent lives on food imported from abroad, not on the output of its farmers.

Per capita production of food in Africa has declined sharply as population has soared. Since African countries have begun reforms urgently needed to improve their agriculture and motivate farmers, but virtually all African politicians refuse to consider that demography is a problem and that they are producing mouths a lot faster than food to put in them.

A whole complex of measures to alleviate this distress has been thought out. But there is not the coordination necessary either within the Western world or among aid recipients to make them work effectively. African nations do not have adequate management skills to organize the programs well, and outsiders either do not understand local conditions or are too concerned with besting rivals to ensure cooperation.

International efforts to feed the world and wipe out hunger have failed. This is all the more ironic because the terribly burdensome surplus pluses show success is possible. Instead of a war on hunger, the United States and Europe are heading for a grain war while poorer parts of the world are less able to feed themselves.

The crux of the problem is purchasing power. The ones who have it cannot eat more than they do and Western farmers cannot sell to the indigent. But there is also an obstacle in attitudes and an outdated way of thinking about agricultural trade.

As Mr. Block notes, agriculture is now a global industry. The trade tripled between 1950 and 1970, and it has doubled again since then. Still, countries think in strictly national terms, concerned above all to protect their own farmers at the expense of competitors. There is not the recognition of common interests in orderly trade patterns (something that did develop for industrial goods, though the understanding is in danger because of protectionist pressures).

The result is "economically inefficient and politically intolerable," in Mr. Block's apt words. The way the good producers are going about trying to help themselves risks disaster for all. The spectacle of world impotence before this twin plague of too much in some places and too little in others is especially shocking, because it is man-made, not a fact of nature.

The key to a solution is obviously incremental, a series of steps that would reduce incentives to noncompetitive production in rich countries and increase incentives for output in poor ones. There also has to be a better sense of the purpose of aid.

The World Food Council has drawn up recommendations. They are sound. But the political will to act is lacking among the nations. They cannot be a quick breakthrough because any drastic move would hurt too many. There can be a clear plan to reverse what is so evidently a wrong direction and to move gradually toward proper adjustments.

Nothing is more basic to a stable world than a proper supply of food. Everything is available, except leadership and inspiration, to reach it through international cooperation.

The New York Times.

Cultural differences have always been crucial sources of intellectual enrichment for the university and for Americans society at large. They should not now be treated as obstacles. Cultural autarchy is no solution to America's problems.

LEONARD C. GROOPMAN, Paris.

## Boom to End All Booms

The other day as I was driving down the E-5 autoroute outside of Brussels, I saw a road sign for a town called Boom (which means "tree" in Flemish). It occurred to me that perhaps the NATO officials who decided to deploy the missiles in Florines, Belgium, made a mistake. They should have put the missiles in Boom. The sad part is that if there was a boom in Boom, there would be no more booms.

THERESE A. COLLINS, Brussels.



# ELECTRONIC BANKING

A SPECIAL REPORT

TUESDAY, JUNE 11, 1985

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## New Banks: Self-Service All the Way

By Kathleen Hawk

GAINESVILLE, Florida — The lobby has little in common with a traditional bank branch. A few tellers share a counter with automated teller machines. Along the walls, enclosures shield customers as they open accounts, calculate loan schedules, pay bills, trade securities or conduct other business by touching the glass faces of electronic terminals. Desks at the center of the room offer services such as insurance, real estate and travel arrangements.

Jointly developed by Bank One Corp. of Columbus, Ohio, and Diebold, a supplier of bank systems, this automated branch will open in October in an affluent suburb of Columbus. Calling it a "new horizon," John Russell, the bank's marketing vice president, said the systems were designed by "people who understand the consumer and how they're going to react to interactive devices."

These new units and Mr. Russell's comment illustrate a trend that links marketing goals with technology. Identified as the "third phase" of technology development by Touche Ross International in a recent 26-nation study, "The Impact of Technology on Banking," this movement involves "migration of service delivery into customers' hands" and "personal and global transaction and telecommunications networks."

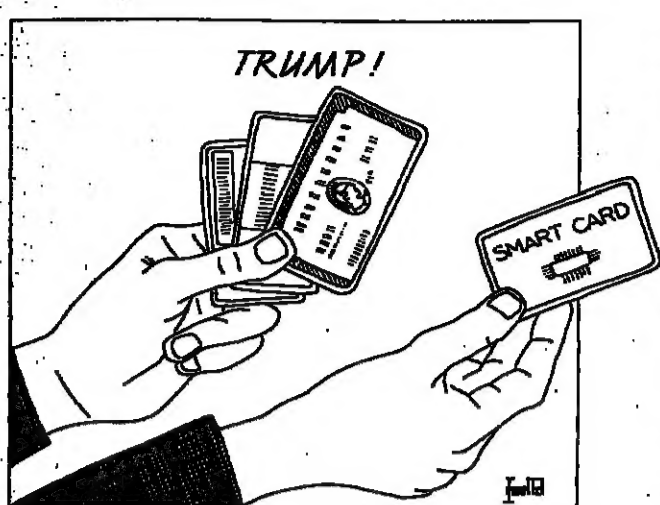
Touche Ross International found that "a few countries, particularly the U.S. and several larger European countries," are leading this phase. The first two phases involved automation of back-office data processing and then automated payment systems and branch functions.

The technology offers challenges to the industry: On the "front end" that consumers see and use, there is high market sensitivity in design of both financial products and delivery systems, and, in the "backroom," increased reliability and access to a broadening spectrum of data bases by the infrastructure of computers, software and communications systems.

"There is a generation growing up that will view the banking terminal as their bank," observed John Morgridge, marketing vice president for Stratus Computer. "There will be a growing list of services and the terminal must always be available."

Ergonomics, the science of making machines comfortable for people, is helping produce a

(Continued on Next Page)



Isabel Card-Mount/DTI



Automated payment in a Blois shop.

## The Smart Card Earns Its Credentials in a French City

By Mark Hunter

BLOIS, France — In September 1982, this picturesque city of 58,000 on the banks of the Loire began an experiment to test the viability of the "smart card," a credit card containing a computer chip.

The card's backers, the postal authority and the GIE Carte à Mémoire, a consortium of French banks now regrouped as the GIE Carte Bancaire, hoped to discover if the cards

"would work in the hands of the public," said André Michand, who directed the experiment for the GIE Carte à Mémoire. At the same time, the card used at Blois, manufactured by Bull Group, would be compared with different cards made by Phillips and Flonic-Schlumberger, under test at Caen, in Normandy, and Lyon. Blois won the first step of the race. The card used there, the Bull model CP8, was selected as the national standard by the GIE Carte Bancaire in July 1984.

"The experiment at Blois was absolutely a success," said Jean-Louis Marchand, a member of the post office's smart-card team. "It showed that the techniques and equipment for a national system, and our ability to provide them, are in place. And we settled on the mixed card. The mixed card combines the magnetic stripe of a common credit card with a computer chip on the card's opposite face. It can be used with current electronic money

(Continued on Next Page)



The IPSO smart card is used in a Blois pay telephone booth.

## Why One Money Card Must Outstrip the Rest

By Nancy L. Ross

WASHINGTON — The "smart card" — plastic money embedded with a microprocessor — is scheduled to make its American debut this summer in pilot programs initiated by MasterCard International. The test will help to determine ultimately not only whether the card with the silicon chip can be a winner in the United States, but also which country's technology will set the rules for the rest of the players in the global arena of electronic funds transfer.

In Columbia, Maryland, outside Washington, 50,000 program participants will receive plastic cards made by the French computer group Bull and marketed by its Dallas subsidiary, Micro Card Technologies Inc. In Palm Beach, Florida, a similar number of subjects will receive cards provided by Casio Microcard Corp. of Japan. Customers will be able to use the cards to pay for goods and services at selected retail locations.

Both types of cards have encoded chips that have a customer's password or secret number built in. In this way they permit cheap, quick verification of the holder's identity on the spot without the information having to be transmitted electronically to a centralized computer. Since the card has its own intelligence, it has been dubbed the *carte à mémoire* in French and the "smart card" in English. The chips also have the capability of storing other means of identification such as the user's signature or fingerprint, as well as up to 200 transactions. However, the Japanese card contains two chips; the French version, one. Moreover, they are placed in different locations on the card.

Experts agree that standardization is essential if the as yet expensive and experimental technology is to succeed as a truly international payment mechanism. "We can't have a European card that will be used in Europe, a Japanese one for Japan and an American card for the United States," Russell Hogg, president of MasterCard, said in Paris a few months ago.

The Japanese appear to have an edge at this point over the French, who invented the smart card. Last month, a New York working group of the International Standards Organization voted, 4 to 2, in favor of the Japanese version while permitting the French version on an interim basis. Some years ago, the same group voted against the Japanese practice of putting the magnetic stripe on the front of their credit cards because it interfered with the printed information such as the bank's logo.

Another hurdle is reconciliation of the clearing-house function. Differing national laws gov-

erning such things as receipts, disclosure and currency exchange pose substantial challenges for software developers.

The development of electronic funds transfer has occurred primarily within national borders. Not only does technology differ, but also delivery systems, marketing, existing alternatives, culture and commitment by government or private industry. The result is a checkerboard, with some European countries highly advanced and their neighbors showing minimal interest. Or, a country will have made outstanding progress in one aspect of electronic transfers, but ignored others.

For example, France is the European leader in all facets of electronic transfers, whereas West Germany has shown little interest to date. Japan has wall-to-wall automated teller machines yet no debit cards. There is a lack of activity in Latin America.

How soon will there be a truly international electronic payment system?

Colin Reeve is vice president for interactive services and international systems for American Express Travel Related Services, a company whose green card has become the symbol of universally accepted credit. As such, he is more sanguine than most about internationalization, predicting that within three years consumers will have the ability to draw cash from machines in all developed countries.

Last spring, Mr. Reeve conducted a survey of electronic fund transfer systems in 16 countries for American Express. He counted automated teller machines, point-of-sale terminals and debit cards worldwide. And just last month, statistics from the central banks of 11 developed countries were published by the Bank Administration Institute, with headquarters outside Chicago. Another survey has been regularly conducted by Spencer Nilson, publisher of a credit card newsletter in Los Angeles.

The figures differ, sometimes substantially, according to the definition of machines and functions used by the survey organizers. For example, American Express lists 60,000 point-of-sale terminals in the United States, while the central banks, which define point-of-sale as the electronic direct debiting of the customer's account, list 800. So what follows are general conclusions drawn from these sources.

On a per-capita basis, Japan has the largest number of automated teller machines, followed by the United States, Britain and France. Hong Kong has the most per acre. The teller machines dispense cash and, in some countries, also trans-

(Continued on Next Page)

## Why so many bankers bank on Nixdorf



When it comes to choosing which computer company to work with, bankers can take their pick. After all, practically every computer company in the world makes a computer that banks can use. So why do so many banks rely on Nixdorf? The answer goes far beyond hardware or system features.

True, Nixdorf computers have a well-deserved reputation for standing up to really tough usage, and that's important when downtime is measured in millions of pounds, marks, francs and dollars.

But hardware alone never sold a banker anything. Bankers require computers that can operate as part of complete telecommunications systems. They require speed, and excruciating accuracy. They require ingenious programming to handle incredibly complex transactions with hundreds of real-time variables. They require international capability, uncompromisable security, and absolute dependability under all kinds of conditions. The sheer volume of transactions, and the interdependence of those transactions requires a processing

capability far beyond what is needed in most other industries.

And the banking business is changing so rapidly that it's not enough to have a computer system. Today's needs require that there be a company standing behind that computer. A company with the size, the resources, the people, the technology, and the will to meet the specialized needs of the most demanding customer. Nixdorf. And every bank knows it.

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COMPUTER



## A SPECIAL REPORT ON ELECTRONIC BANKING

## The New Banks: Self-Service Is All the Way

(Continued From Previous Page)

"friendlier" generation of hardware. An Omron automated teller machine, introduced last year in the United States and currently being re-engineered for European markets, lights up at a customer's approach, can help a customer through his transaction with voice prompts and animated graphics, and can print an interim statement.

The market shows increasing variety as first-generation automated teller machines, some a decade old, are replaced. There are bigger buttons, simple "1-2-3" instructions, drive-up units and "designer" models, like ATM Technology's slim unit, International Business Machines' introduced a check-cashing machine that gives exact change. SCI Systems unveiled a four-sided, touch-sensitive, coin-dispensing device for busy lobbies. And other vendors, like Burroughs, have driven the cost of cash dispensers below \$15,000, while increasing transaction speed and ease of servicing.

But even innovative automated teller machines are old news compared with other self-service terminals. Software Alliance is negotiating a multinational contract for its touch-sensitive lobby terminal, programmable to open accounts, order checks, model loans and mortgages, and pre-qualify the customer. Since the system cannot actually sign the papers, it includes monitors for sales staff.

Not all vendors are banking on the advantage. Terminals that look reassuringly like automated teller machines now rap out interim statements with high-speed printers. Some lobby units do nothing but provide a training tool to introduce customers to electronic banking.

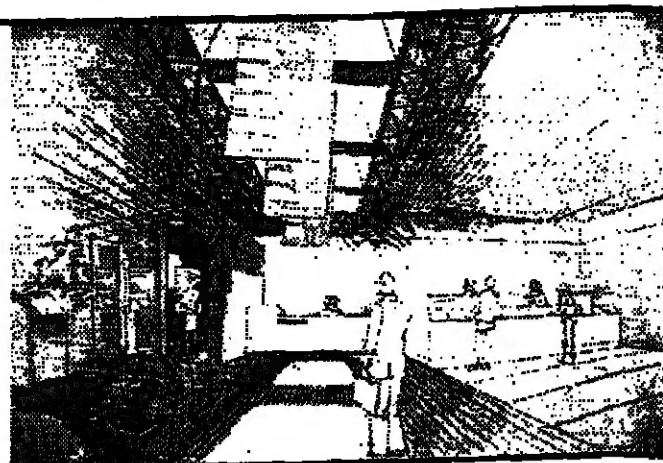
As technology minimizes routine work, branch employees are committed to the sale of bank services. Here again, automation is changing the way banks deal with customers. Work stations and personal computers in branches provide not only an efficient means of documentation and bank servicing but a powerful selling tool.

Bankers' complaints about lack of software indicate that marketing programs for staff work stations may be one of the growth areas of the next few years. Financial planning programs are particularly interesting today, because planning can be sold as a separate service, yet it provides a base for selling other products.

Bank of America is testing planning programs in selected branches. Keyed to goals like retirement security or children's college education, the programs indicate the levels and types of investment needed, said Bruce Mapes, a Bank of America vice president.

The trend toward terminal-based service puts heavy demands on "backroom" support systems. Behind all the terminals in banks, on street corners and those linked to home banking and cash management services are huge information requirements. Retail-account balances, corporate position reports, interest rates on credit and investment products, marketing programs that "model" payback schedules and returns, investment market information — the list

Architect's drawing of the automated bank branch that will open in a suburb of Columbus, Ohio.



grows with the ability of marketers to integrate information with service to produce fees.

"Banks used to give information away," said Donald G. Long, IBM senior banking consultant. "In the future, information will become banking's most important product."

The personal and global networks mentioned in the Touche Ross International report depend on the assumption that information files, even within a single bank, can be cross-linked. However, assimilating the names and numbers of various types of account relationships into a core file can mean years of work and millions of dollars, depending on the size of the institution.

Off-the-shelf "integrated software" products have become more numerous and more inclusive. Companies like Hogan, Logica, ACI and Anacom have been working to complete these systems. The sheer bulk of the task recently caused Anacom to set aside its project. Kevin Scully, vice president of Logica's American sub-

**Marketing programs for staff work stations may be one of the growth areas of the next few years.**

siary, described the development of a centralized data bank for a Swiss bank as "the work of years, an astronomical commitment."

Many major banks, whose various accounting programs were often devised independently of each other 10 years ago or more, have not yet committed themselves to system integration. "The main problem is that we have huge systems built for efficiency, five million transactions a night. If you want to cross-cut, you have to invert the system," said Bart Bakker, innovation manager at Rabobank Nederland. "No one wants to throw away what they have, or build anew. So you have to build an auxiliary system."

"Auxiliary systems" built on microcomputers satisfy many problems of information access. The old systems "built for efficiency" are usually batch-processed, running masses of accumulated data through the mainframe at a designated time for each application. In contrast, consumer-oriented systems demand instantaneous information and completion. For these purposes, mini-computers can collect the latest account information from the mainframe and store "memos" about consumer transactions until the mainframe processes them.

Fault-tolerant computers are taking a growing market share for these on-line transaction

systems. Pioneered by Tandem Computers more than 10 years ago, they are engineered with paired components to keep one side running if the other fails. Tandem gained in the banking industry for reliability in automated teller machines and other fund-transfer networks and, more recently, it has been sold as a mainframe to support integrated software in banks in several countries.

This year, fault tolerance was adopted by two giants in bank automation systems. After years of arguing that fault tolerance was no better than its own solution of backed-up standard processors, IBM signed a remarketing agreement with Stratus Computers, a four-year-old firm with a fault-tolerant design that was claimed to maintain processing capacity better than Tandem's. In addition, Nixdorf Computer, the leading European vendor of bank systems, introduced a product based on fault-tolerant hardware from Aurigen System Corp.

The final element in the information and transaction networks is the communications systems to move the data. NCR is developing a showpiece system for Fellesta, the giant Norwegian service bureau. An extended hub-and-spoke configuration links the host to the branches, each branch to the point-of-sale terminals of its customers. Security systems are built into the network, which will support electronic mail, archive and retrieval functions and a totally integrated system of intelligent terminals.

In England, Midland Bank is linking 1,700 branches with Midnet, primarily based on Nixdorf equipment. In addition to "opening a lot of new horizons in connecting points within the bank," according to Edward Newman, assistant manager of Midnet, the network links Midland subsidiary Thomas Cook travel agencies to other travel-oriented data bases. As a result, the system can be sold to other travel firms as a value-added network.

But the prime example of the "global network" that places the delivery service "in the customer's hands" may be the worldwide MicroStar network built by Bank of America for multinational cash management business. Linking compatible mainframes around the world, MicroStar provides multibank position reports, credit and investment information, and transaction power to terminals on the desks of corporate cash managers on five continents.

In summing up the "third phase," Colin Kilpen, vice president of Treasury Management Services, said, "We're moving functionally out of the backroom into the customer's office. They have control of the data. We also move costs to the customer, so it's beneficial for both of us."

## Home Banking: Question Is When, Not If

By Amiel Komei

NOTTINGHAM, England — In September 1983, a small regional bank in Nottingham attracted international attention by launching the first electronic home-banking service in Britain. But almost two years later, British home banking is barely off the ground.

While expressing optimism about the long-term prospects of such systems, bankers and analysts interviewed recently anticipate a slow growth for what was once considered one of the most promising facilities of the so-called electronic cottage.

Home banking in Britain is "very embryonic," said Karol Szlachinski, senior consultant at Butler Cox & Partners Ltd., an international management consultancy in London. "We're not talking about very many users."

Three banks are currently involved with home banking in Britain. The Nottingham Building Society and the Bank of Scotland each offer an electronic home service to their customers. And Midland Bank, one of England's largest, is running a pilot trial.

The banks are reluctant to talk about the results of their experience. This reticence has generally led to pessimistic speculation about the systems' success. The tales that they and others tell suggest that the time is not yet right for home banking.

"For a very long time it will only appeal to specific market segments," said Mr. Szlachinski. "In the U.K., a high proportion of people don't even have bank accounts." "In my mind," said David Bayliss, manager of electronic banking at Midland Bank, "there is no question that home banking is a service that will be required in the future." But he added: "The problem is that we're not quite sure that there is a market now, nor how big it is."

Developments in computing and telecommunications technologies since the 1970s enabled the wiring of homes and businesses for the reception of electronic information.

The growing enthusiasm for personal computers and the electronic delivery of information encouraged the development of systems for piping electronic financial services direct into the home via the telephone. Bank executives hoped to decrease personnel and building costs by persuading customers to conduct their financial business from home.

In Europe, efforts by national telecommunications authorities to promote use of their networks spurred the development of videotex systems that link computers and terminals over the telephone line. The terminal is often no more than a television set hooked up to a decoder and keyboard.

Growth of the Prestel videotex system in Britain, Teletel in France, and Bildschirmtext in West Germany has been accompanied by the development of electronic home banking. The first such service in Europe was offered by the Hamburg-based Verbraucher Bank. Credit Commercial de France and Credit Lyonnais have piggybacked their services on the growing Teletel network.

In the United States, the development of home banking has been tied to personal-computer use. Chemical Bank and Chase Manhattan offer home banking to several thousand customers.

Yet, many analysts and bankers are not optimistic about the prospects for rapid growth of home banking. "The proportion of households using such systems in the short term will be very small," said Mr. Szlachinski. "I think that things will take a long time to catch on."

Consumer demand will be slow to develop, predicted Mr. Bayliss. "The question is not if it will become a service of the future, but how quickly," he said. "It will not be profitable in terms of the number of customers before 1990."

"Home banking is not as immediate as some people are suggesting," said Alwyn James, spokesman for the Royal Bank of Scotland in Edinburgh. "There will be some time before the public accepts it as an alternative to branch banking."

The current systems offer such services as account statements, balance inquiries, transfer of funds between accounts, payment of standing bills and messaging between the customer and the bank.

They also include assorted "frills" to make the package more attractive. Games, auctions and classified advertising are available on the Nottingham service. A stock-brokerage facility will be launched at the end of June.

Many banks do not sense an urgency for offering such electronic services directly to the home. "We see no benefit from being at the front of this particular movement," said Mr. James.

"In terms of home banking in Europe," warned Michael Gallagher, manager of electronic banking at Chase Manhattan in London, "it might still be a little early to be aggressive." Britain's building societies are regional banks that offer financial services similar to those available at savings and loan institutions in the United States. They have few branch offices and often have been slow to introduce modern technology.

After deferring computerization for several years, the Nottingham Building Society leaptfrogged its competitors in September 1983 by offering a home-banking service called HomeLink.

It is difficult to gauge the system's success. A sign in the bank's lobby urges customers to subscribe to HomeLink rather than wait for service at the counter. But judging from the size of the crowds lined up on a recent afternoon, the message is not getting across.

The bank's executives refuse to divulge figures on system use. Although they say there are "several thousand" HomeLink customers, they minimize the importance of having a large number of subscribers. "Being the size that we are," said Stuart Brandreth, deputy manager, "we don't have to be as successful in the numbers game as, say, Barclays."

Experts disagree. "With most electronic services," said Mr. Szlachinski, "volume is very important.... There are high fixed costs to provide these services."

Nottingham spent about \$4 million (\$5.2 million) to launch HomeLink, according to Mr. Brandreth. Company records suggest that more than \$1 million was spent between 1982 and 1984 on computer equipment for the system. British Telecom, the privatized national telecommunications authority, and the Bank of Scotland also participated in development of the project.

In return for the investment, officials hope that the system will extend the bank's reach to other parts of Britain. "Our prize is that it's turning a regional organization into a national organization," said Mr. Brandreth. "It's a cheaper way to get more customers than by opening a branch bank."



A French couple checks banking transactions at home.

## Why One Money Card Must Outstrip the Rest

(Continued From Previous Page)

fer funds and answer balance inquiries. Although the United States has more point-of-sale terminals, France leads based on population. A terminal, located in a store or gas station, is connected electronically to a network. It captures and sometimes transmits payment data electronically. Its chief functions are credit authorization and identification verification.

However, if point-of-sale is defined as direct debit, France is the uncontested leader. This system means speedy payment for the merchant, who gets immediate access to a buyer's bank account or credit line.

In an interview, Mr. Reeve supplied his theories behind the numbers in his company's survey. The old and new in Japan account for that country's love of teller machines: expertise in high technology and traditional culture. Japanese like to have enough money for any situation as they do not like to lose face, Mr. Reeve said. So they will take money out of a teller machine in the morning and put it back at night if unused.

The teller machines, which developed slowly at first in the United States, caught on when banks found they were an arduous task around restrictions against interstate banking. Soon they became almost a necessity in the highly competitive environment of American banking. Unlike the United States, with its 14,000 banks, Britain and France have but a relative handful of banks so the teller machines were seen as a logical way of expanding offices without the cost of bricks and mortar, and lengthening hours without the expense of overtime.

Among those listed by American Express as "undeveloped" with regard to teller machines are such countries as Malaysia, the Netherlands, West Germany, Italy and Mexico. Mr. Reeve suggested that the small size of the Netherlands puts the Dutch within easy reach of banks. West Germany, on the other hand, pioneered the Eurocheque — paper guaranteed for small amounts that is cashable anywhere — so has scant need for cash machines. As for Italy, he cites as deterrents the fear of muggings and frequent changes of government that preclude a

firm national policy of funds-transfer development, such as France enjoys.

Other factors are the effect of cold weather on machines in northern climes and a high incidence of vandalism, especially the use of super glue to seal drawers.

According to American Express, whereas the compound annual growth rate of teller-machine installations over a three-year period to 1986 will be 27 percent, point-of-sale terminals will grow by 62 percent.

In French homes there are 350,000 Minitel, or small video screens linked to information sources, that enable viewers to get telephone numbers or their bank balances.

American merchants, with the exception of service stations, remain unconvinced of the utility of debit cards, given the start-up costs involved for hardware. There are about 1,100 direct debit terminals in the United States, according to Bank Network News. Home banking and videotex are in embryonic stages, with approximately 38,000 users. Recently, a joint venture was announced that will offer subscribers computerized banking, discount stock brokerage and merchandise shopping. At this juncture it is impossible to tell if or when these services will become popular and profitable.

Spain, Mr. Reeve noted, got into the game fairly late, but he expects the number of point-of-sale terminals to accelerate, pushed by the government postal service. Again, because of the postal service, he also expects a lot of progress in Sweden in the next two years. However, he added that Sweden was a difficult country in which to do business because merchants there resist accepting credit cards, objecting to discounted payments.

Around the world, the Asian financial capital of Hong Kong shows a high density of teller machines and point-of-sale terminals, but no debit cards. Mr. Reeve offers a cultural explanation for this. Chinese love to haggle over prices, and cash payments lead to higher discounts than plastic cards, which create a record.

## How Smart Card Earned Credentials in a French City

(Continued From Previous Page)

distributors and point-of-sale terminals, as well as with the new equipment designed to accept smart cards.

At Blois, this equipment included 10 public telephones and 1,000 Minitel home video terminals with card "readers," which, as of June, provide full home banking services to users. In September, local hospitals will issue smart cards containing medical histories of expectant mothers and newborns in the chips' memories.

But the Blois test showed that human factors, especially among merchants and consumers, will play as large a role as technology in the smart cards' future. At the start of the experiment, 160 local merchants installed readers of smart cards provided by local banks in their stores. Five thousand selected bank clients were issued "IPSO" cards, which carried a chip but no magnetic stripe. These cards were supplanted by mixed cards given to all Carte Bleue and Visa holders beginning in May 1984, and the number in circulation rose to 15,000 at the end of that year.

Dominique François, a postal official who coordinated the experiment in Blois, said a post office study had shown in advance that the IPSO cards would be underutilized, because consumers "had fear of the technology, and of a card that would replace checks." About 10 percent of IPSO cardholders used their cards one or more times per month, Mr. Michaud said.

Consumers believed that purchases made with the IPSO card would be debited immediately from their accounts, despite a note on a promotional flyer sent to them by the banks that the "float" on purchases would be "comparable to those of checks."

The banks inadvertently added to this confusion. "When we put out the IPSO card, we used the term 'electronic checking,'" said Guy Rousselet, client relations manager for the Société Générale de Blois. "And people said, 'We don't want to complicate our lives.'"

The misconception stuck to the mixed card. "With the smart card, the money is taken out of your account immediately," said Pascal Di Lauro, a Carte Bleue holder interviewed in a Blois shopping mall. In fact, however, the new mixed Carte Bleue cards are billed exactly like the old ones.

Unlike a magnetic card, the IPSO card could not be used for over-the-counter purchases without a personal four-digit validating code. If an incorrect number is used three times in succession, the card is automatically blocked. The Carte Bleue mixed card's smart side has the same feature. This trait of the card also inhibited consumers.

"People are prudent in their use of the

card, because they forget their code," said Jean-Marie Ferné, a participating merchant. "Often, we propose that they use the card, and they say no."

For other users of the smart card, however, this built-in security is an attraction. Dany Priour, strolling in the mall with his wife and baby, commented that his smart card "is much safer than checks." He said, "If you lose your checkbook, you're in trouble. Merchants are more likely to take the card than a check."

"All of us, banks and merchants, are agreed on one point: The smart card is a guarantee of payment, compared to a check or ordinary card," said Jacques Couppe, a participating merchant and vice president of the Blois Union of Merchants and Artisans. The consumer is responsible for payment, as proprietor of his personal code.

But a sharp point of difference remains between the merchants and local banks. Each payment on a smart-card terminal carries a bank charge of 0.6 to 1.6 percent, depending on the number of transactions per day, with fewer transactions costing the merchant more. "We're giving a service to the banks," he said. "Thanks to us, they have fewer checks to handle... the card should be free to us."

Gérard Pujo, assistant director of the Crédit Lyonnais of Blois, conceded that "the goal is to suppress checks, in the long term." Each check costs the writer's bank 3 to 5 francs in handling.

But Mr. Pujo added: "This is a very French argument. We give the merchants the equipment and a guarantee of payment; for that, we take a payment, and it's less than for Carte Bleue." The charge on a Carte Bleue payment is 2.5 percent.

This conflict between bankers and merchants "is the principal problem for generalization of the smart card system," said Dominique Dran, a member of the smart card group at the national Agence de l'Informatique.

Mr. Michaud said, "Negotiations on this card are continuing between banks and merchants; the points will be settled between individual banks and their clients, depending on the services offered."

Meanwhile, the smart card is winning converts in Blois. "The bank gave me my IPSO card — I didn't ask for it," said Robert Selva, a local realtor. "I use it often; it's easier than writing a check. Before long I'll have a Minitel for home banking."

For the moment, the experiment is only in Blois. Mr. Selva said, "but soon I'll be able to use the card around France."

It is estimated that 10 million smart cards will be distributed in France by 1990. Generalization of the system is expected to begin in October, Mr. Michaud said.

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## What Banks Can Do To Guard Against Electronic Fraud

By Patricia A. Murphy

WASHINGTON — With electronic technologies reshaping the way the business of banking is being conducted around the world, bankers and industry observers alike are looking closely at the protection of electronic transactions from fraud.

A Bank of America executive vice president, Max Hopper, labels electronic banking fraud "one of my greatest fears," particularly the potential for fraud on electronic systems that handle small dollar consumer transactions. "There is limited attention being focused on security in this high-volume area," Mr. Hopper, who oversees technology applications at Bank of America, told an international gathering of bankers in Washington. "We sometimes forget that our major product is trust."

The need to secure electronic banking systems against fraud is not a new idea. "It has been on the minds of everybody since the eve of EFT [electronic fund transfer], but practically nobody has done anything about it," according to George Warfel, an electronic security expert based in Menlo Park, California. For example, Mr. Warfel said, "A very small percentage of the interconnecting lines of interconnecting networks are protected by encryption."

Encryption entails the scrambling of data so that it cannot easily be tampered with while traveling across high-speed communications lines. In the United States, where encryption is considered a norm, reportedly only a third of all on-line automated teller machine networks use encryption.

This bodes ill for security-conscious bankers like Mr. Hopper, who says his bank will not link into any teller machine network that does not use encryption security measures.

Unlike small dollar consumer-oriented networks, virtually every large dollar interbank electronic funds transfer network in the world is protected by encryption, as well as other security techniques. Of course, that is not to suggest that such large dollar networks are free of the risks of fraud. However, there are far fewer reported incidents.

One way of overcoming the risks of transactions flowing unprotected across electronic networks, Mr. Warfel and others believe, is through the use of "smart cards." A plastic card with a computer chip embedded in it, the smart card has the capability of encrypting data (such as personal identification numbers) before it is even sent across telecommunications lines.

The smart card has been widely tested in France, where it was first invented more than 10

years ago. And the French are busy putting in place a national electronic network based on smart-card technologies.

"Our feeling is: Where is the need to have a high-security measure on the network if you have a high-security card," said Christian Loviton, chairman of Group Facem, a Paris firm that specializes in electronic banking and shopping services. "The card is the first level of security that we want to upgrade."

Mr. Warfel points to France as the nation where the most attention is being paid to electronic banking security.

Mr. Loviton agrees. "France is the first country in the world to have a national [electronic fund transfer] system, so we have to take care of the security," he said.

Aside from encrypting data, Mr. Loviton noted, the smart card also can track transaction patterns, and, when a consumer's shopping pattern undergoes a sudden change, can alert a merchant to the possibility that the card being used might be stolen.

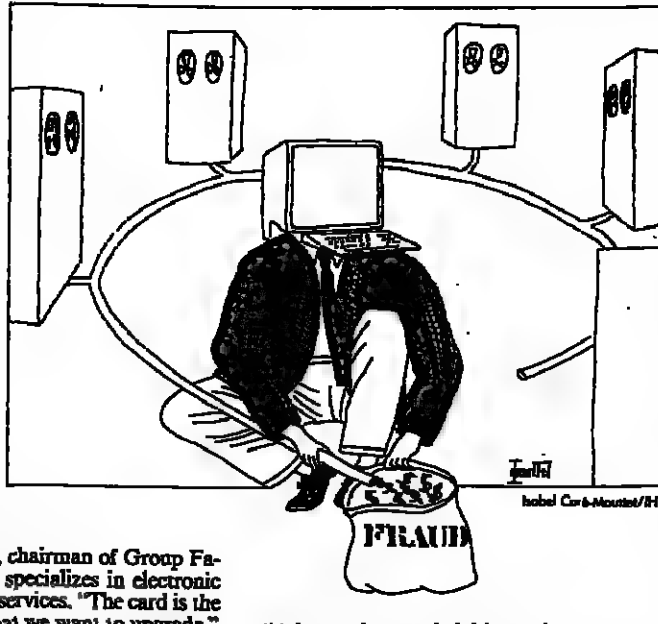
Both the major international bank card organizations are dabbling in smart card technologies. MasterCard International will be testing about 100,000 smart cards in the United States this month. About half of those cards will be supplied by Bull Group, the French firm that supplies most of the world's smart cards; the other half will be supplied by Casio Microcard Corp., the American subsidiary of Casio Corp. of Tokyo, and a relatively recent entrant into the smart card marketplace.

Meanwhile, Visa International's French affiliate, Carte Bleue, has been testing smart cards throughout France for more than two years.

Because the smart card technology currently relies on personal identification numbers, which easily can be discovered or revealed, they are not yet considered fool-proof.

"I don't want to say [smart cards offer] the best security, but it's the best security for the moment," Mr. Loviton says.

Looking ahead, security experts see biometrics providing the best method of protecting consumer electronic transactions. Biometrics involves the identification of a card user through biological features that are determined at birth and cannot be changed, such as voice tones, eyeball patterns and signature dynamics.



"Adequately recorded, biometrics are as near fool-proof as we are going to get in this century," Mr. Warfel observes.

According to Mr. Loviton, the "dynamics" of a consumer's signature (the pressure and speed, for example) can easily be stored in the chip of a smart card. Then, each time a cardholder initiates a transaction, they simply sign their name on a special "pad," which records the dynamics of the signature being penned and compares those features against the data already stored in the chip.

"The signature will be for one time, and will be stored in the chip of the card," Mr. Loviton said.

Mr. Loviton expects market testing of smart cards storing signature information to begin within the next few months.

With more than 150 automated teller machine cards and several million point-of-sale debit cards circulating throughout the world, the consumer is considered the key to protecting electronic banking systems. Yet, consumers are also seen as being rather lax about protecting their personal identification numbers.

A report recently released by the U.S. Department of Justice points to the need for going beyond personal identification numbers in protecting debit cards. The report, "Electronic Fund Transfer Fraud," which describes the findings of the U.S. government's first attempt at examining teller-machine fraud, suggests that most consumers (about three-quarters of those queried) record and keep identification numbers on or near their debit cards. Only about 15 percent of the teller-machine frauds studied by the department involved consumers who had not written or stored their numbers someplace. This led officials to conclude that "a significant amount" of teller-machine fraud might be eliminated if cardholders memorized or were more careful about concealing their numbers.

### CONTRIBUTORS

**KATHLEEN HAWK**, a freelance journalist specializing in bank automation topics, is a former editor of Payment Systems Newsletter and a regular contributor to financial industry publications and general business magazines in the United States.

**MARK HUNTER** is a Paris-based correspondent for U.S. and European publications.

**AMIEL KORNEL**, a Paris-based journalist who writes on technology, contributes to the International Herald Tribune.

**WILLIAM R. MORONEY** is president and chief executive officer of the Electronic Funds Transfer Association, a Washington, D.C.-based organization that represents companies involved in the development and

implementation of electronic funds transfer services and systems.

**PATRICIA A. MURPHY** is a Washington-based journalist who edits Corporate EFT Report and EFT Report.

**NANCY L. ROSS** is a reporter on The Washington Post-financial staff who covers banking.

## Automated Clearing Houses Assure Payments

LONDON — Ever since King Hammurabi, founder of the Babylonian Empire, established a code of standards for banking practice in the 18th century B.C., officials have sought to assure an orderly system of payments.

The rapid growth of electronic money over the last decade, due to a proliferation of data-processing and telecommunications technologies, has lent new urgency to the need for reliable and universal means of funds transfer.

The increasingly large volumes of electronic money being moved among financial institutions worldwide have necessitated the creation of automated settlement and clearing organizations. Called the "unsung success story of electronic funds transfer" by one banking expert, the automated clearing house is essential to the smooth functioning of national and international banking.

Through the systems, bulk and high-value payments can be made rapidly and securely throughout the world. In 1983, the clearings in England and Wales alone totaled over 3.3 billion transactions.

The art of electronically clearing large volumes of funds between banks has reached a new level of sophistication in Britain during the last year. The creation of a technologically advanced national system, CHAPS, and a massive review of all British payment-clearing systems has made London the focus of attention in developments of interbank money transfer.

"Other countries' payment-clearing systems also need reform," said Denis Child, a director and deputy group chief executive of National Westminster Bank, at a recent international symposium on banking and payment services in Washington. "The ideas contained in our study and our conclusions may provide a very useful starting point for others." Mr. Child chaired the commission that reviewed the British clearing system in 1984.

In an effort to satisfy criticisms alleging secrecy and a lack of consultation by the clearing banks, the wide-ranging review was ordered by

the 10 members of the Bankers' Clearing House. The report, published last December, urged a major restructuring of the organization, membership and control of Britain's payment-clearing systems.

According to the report, the Association for Payment Clearing Services, an umbrella organization, would oversee development of the clearing system. Three operating companies would handle Britain's paper and electronic clearings. Membership criteria in the companies were defined to permit participation by more financial institutions while maintaining the integrity and efficiency of the system.

Delicate consultations concerning implementation of the proposals are currently in progress. Observers close to the talks expect them to conclude by the end of the year.

Although the Child report's proposals should not affect day-to-day operations of the clearing systems, they will have a major impact on organizational structure. Consequently, they should exert considerable influence on future developments, as well as on the financial community's confidence in the systems.

CHAPS, the Clearing House Automated Payment System, permits same-day authenticated payments between banks and other financial institutions in pounds. It is the symbol and manifestation of British bankers' desire to make London the world's leading financial center. Bankers were motivated to act quickly by the growing success of New York's Clearing House Interbank Payment System, CHIPS.

CHIPS is a same-day settlement service for interbank dollar payments. It is used by American banks as well as the New York branches of many foreign banks. It is owned by 12 leading New York banks and has 86 members. The system processes about 90 percent of all U.S. dollar-denominated international transactions.

After scrapping a first version that was based on the centralized processing approach used in CHIPS, the London bankers developed CHAPS

II, a technically ambitious system that links settlement banks over British Telecom's packet-switching network. The system came into operation on Feb. 1, 1984.

Many banks boycotted the system initially, due to skepticism over its technical ambitions and dissatisfaction over the difficulty of becoming a clearer.

But the Child report and the technical success of the system has helped dispel those concerns. There will be a "dramatic increase" in participation as implementation of the report proceeds, predicted John Chappenden, manager of the CHAPS team at Midland Bank.

Both CHIPS and CHAPS are national versions of the international network of the Society for Worldwide Interbank Financial Telecommunications, SWIFT. The SWIFT network serves to process and transmit payment and other financial-transaction instructions internationally. Formed in May 1973 by 239 European and North American banks, SWIFT membership now encompasses more than 1,000 banks in over 50 countries. The network has played a key role in the modernization of international banking.

"SWIFT has pushed the need for the local clearing systems," said one U.S. banker. Banks are receiving enormous amounts of messaging from the network, he said. Developing national systems is the only way to keep up.

A technical upgrade of the network, SWIFT II, is planned to progressively replace the present system by 1987. Similar to the London CHAPS II system, it will apply a decentralized design to transaction processing.

These will not be the last of the improvements required in electronic payment clearing systems. "However good our current arrangements are or might be," said Mr. Child, "the world does not stand still. Technological and other innovation will be constantly needed in all the main areas of payment systems activity."

— AMIEL KORNEL

## Automated Payments: Opportunities Abound

By William R. Moroney

WASHINGTON — New automated payments services are bursting on the marketplace in most of the world's developed nations at an extraordinary pace.

While different types of electronic fund transfer systems are used in different countries, they are all variations on a common theme — new technologies have become a multi-industry tool that will be increasingly used to provide consumers and business with a broad range of financial services.

These technological innovations will be used by the provider to automate and streamline the delivery of financial services and by the user to gain greater control over and benefit from these services.

The new developments in services for individual consumers include automated teller machine

networks, point-of-sale payment services in stores and videotex-based home banking.

These consumer services hold more promise for business than just the obvious benefit of increased financial convenience for the businessman. They are a foundation for the creation of new types of partnerships between banks and other financial-service providers. And they are the infrastructure through which these new partnerships will jointly market and profit from the next generation of financial services.

Two examples from the United States are the evolution of automated-teller networks into value-added point-of-sale systems and the reorientation of videotex financial services toward the business customer.

The United States has more than 50,000 automated tellers and each day more are linked to shared networks. As these regional and national networks grow, a system is created for the delivery of point-of-sale services to a wide variety of retailers. Eventually, consumers will use their debit cards as frequently at retail locations to directly access their asset accounts as they now do at automated-teller locations.

This added convenience for the consumer will mean improved financial service for business participants as well. As point-of-sale systems evolve, many options are possible for the participating retailer, including the following:

- Cash becomes a commodity that can be bought and sold just like razor blades or gasoline. Cash needs are better controlled, reducing most retailers' largest nonproductive asset, in-store cash.

- Customer payment float is reduced, increasing retailer access to and earnings opportunities from sales income.

- Fraud losses are reduced through improved authorization systems that will be a part of the electronic networks.

- Fund-transfer/point-of-sale systems may eventually compete by offering the business customer value-added services.

A major issue in this development is the question of who pays and how much. The fees that providers of electronic fund transfers charge each other is an issue that is being decided by the free market, and the key appears to be financial investment in the system.

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Westinghouse	42.00	41.50	41.75	+0.25
Boeing	75.00	74.50	74.75	+0.25
Johnson & Johnson	65.00	64.50	64.75	+0.25
Merck	55.00	54.50	54.75	+0.25
Amgen	45.00	44.50	44.75	+0.25
Novartis	35.00	34.50	34.75	+0.25
Roche	25.00	24.50	24.75	+0.25

Dow Jones Averages				
Open	High	Low	Last	Chg.
Indus	1124.25	1122.50	1123.44	+2.00
Trans	682.00	680.00	681.50	+0.50
Comp	242.00	240.00	241.50	+0.50

NYSE Index				
High	Low	Close	Prev.	Chg.
1124.25	1122.50	1123.44	1121.44	+2.00

NYSE Closing				
Vol.	High	Low	Last	Chg.
7,125,000	1124.25	1122.50	1123.44	+2.00

AMEX Diaries				
Adv.	Decl.	Unch.	Net	Vol.
1,234	567	890	467	1,234,567

NASDAQ Index				
High	Low	Close	Prev.	Chg.
1,234.56	1,232.34	1,233.45	1,231.23	+2.22

AMEX Most Actives				
Vol.	High	Low	Last	Chg.
1,234	123.45	122.34	123.12	+0.78

Dow Jones Bond Averages				
Open	High	Low	Last	Chg.
102.34	102.12	101.89	102.01	+0.17

NYSE Diaries				
Adv.	Decl.	Unch.	Net	Vol.
1,234	567	890	467	1,234,567

Odd-Lot Trading in N.Y.				
June 7	June 8	June 9	June 10	June 11
1,234	567	890	467	1,234,567

Standard & Poor's Index				
High	Low	Close	Prev.	Chg.
1,234.56	1,232.34	1,233.45	1,231.23	+2.22

AMEX Sales				
Adv.	Decl.	Unch.	Net	Vol.
1,234	567	890	467	1,234,567

AMEX Stock Index				
High	Low	Close	Prev.	Chg.
1,234.56	1,232.34	1,233.45	1,231.23	+2.22

AMEX Most Actives				
Vol.	High	Low	Last	Chg.
1,234	123.45	122.34	123.12	+0.78

## Trading Is Light on the NYSE

**United Press International**  
NEW YORK — The stock market was lower late Monday in light trading that analysts said was a reaction to last week's unexpected U.S. economic figures.

The Dow Jones industrial average was off 0.22 to 1,316.19 at an hour before the close. Declines led advances by a 3-2 ratio among the 1,963 issues traded.

Five-hour Big Board volume amounted to about 73,571,800 shares, compared with 85,190,000 in the same period Friday.

"The market is still reacting to the surprise in

Although prices in tables on these pages are from the 4 P.M. close in New York, for time reasons, this article is based on the market at 3 P.M.

had Friday in the employment increase," said Monte Gordon, research director at Dreyfus Corp. "The increase tripped up the bond market and stocks were taken aback."

Mr. Gordon said the market had counted on the Fed to aggressively drive interest rates down. When the May employment report demonstrated strength in service-sector employment, the market concluded that the outlook for continued sluggishness in corporate earnings, he said.

With that in mind, the market backed off, Mr. Gordon said. "The market will very possibly weaken further if uncertainty on the economy persists," he said. "The Fed has decided to quietly contemplate its next move while waiting to see whether its last cut in the discount rate stimulates some economic growth, he said.

On the trading floor, San Diego Gas & Elec-

tric was near the top of the active list and slightly lower.

Coca-Cola was off in active trading. Lorton was slightly higher. Massey Ferguson was off fractionally.

Gulf & Western (ex-dividend) was off modestly. It plans to sell its Consumer and Industrial Products Group for about \$1 billion to Wickes Cos.

National Semiconductor was slightly higher. TWA was off slightly. It is reportedly close to being acquired by Resorts International. Resorts International Class A and Class B were lower.

UAI Inc., parent company of United Airlines, advanced. UAI said it planned to restructure the excess assets of its various employee pension plans and estimated the value of those excess assets to be about \$962 million.

IBM was up slightly. Digital Equipment and Cray Research were lower.

General Motors, Ford and Chrysler were all lower.

AT&T, ITT and General Electric were lower. Westinghouse was up fractionally.

American Express was up marginally. Merrill Lynch was off modestly.

Citicorp, Chase Manhattan Bank and Manufacturers Hanover were easier. BankAmerica was unchanged at 20.

Treasury Secretary James A. Baker 3d said Monday that the Reagan administration is looking for a pickup in economic growth in the second half of the year as business conditions show the effects of recent moves by the Fed to encourage lower interest rates.

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## Japan Raises Auto Exports To the U.S., And Surplus

**The Associated Press**

For all of 1984, Japan's surplus with the EC was about \$10 billion. Japan's exports to China in May rose 118.7 percent to \$1.09 billion, while imports from China climbed 8.5 percent to \$580 million, leaving a Japanese surplus of \$506 million.

Geneva-based agency and about 35 apply its rules to trading.

Delegates to the organizational meeting would evaluate papers for participants outlining their priorities and goals for the negotiations and which would be submitted to GATT prior to the meeting itself, Mr. Hallström said. Several ministers said that they believed position papers could be submitted in the next several weeks.

"We know that 23 developing countries are ready, the U.S. is ready and we are ready" to begin preparations for the round, said Willy de Clercq, the EC commissioner for external relations and trade.

"It is not a great breakthrough but it is progress toward clarifying positions on trade," said Edith Cresson, France's minister of industry and foreign trade.

[illegible]

**HOW MUCH LONGER CAN THE DOLLAR REMAIN IN THE WORLD'S FINANCIAL SADDLE?**

The "Almighty Dollar" is once again almighty. Almost daily, it breaks new records in the international foreign exchange markets. Yet just a few short years ago - 1980 to be precise - the "greenback" was flat on its back. One of the weakest currencies in the world.

What has given the dollar such a strong new life: The buoyant U.S. economy? Or artificially high American interest rates, supported by mind-boggling national budget deficits?

Economists are divided. But they seem to agree on one thing: the U.S. currency is probably overvalued and it is likely to decline. Perhaps gradually. Perhaps precipitately.

**GOLD CAN CUSHION THE FALL**

Gold is an unparalleled protection if their predictions are realized. Why gold?

Because all currencies - even the U.S. dollar - are simply pieces of paper. Their value is as strong, or weak as the country which stands behind them. Which paper currency would you choose as a refuge from the dollar?

By contrast, gold is a metal. A precious metal. Its value depends on no nation, no economy. The value of gold is intrinsic and therefore trustworthy. Moreover, it is easy to store, easy to transport. And instantly revalued

for the treasure it is, virtually anywhere in the world. .

Today's gold price is still relatively low, and the historical trend has always been up. Financial counsellors recommend putting at least 10-15% of investment assets into gold, as insurance for the medium to long term.

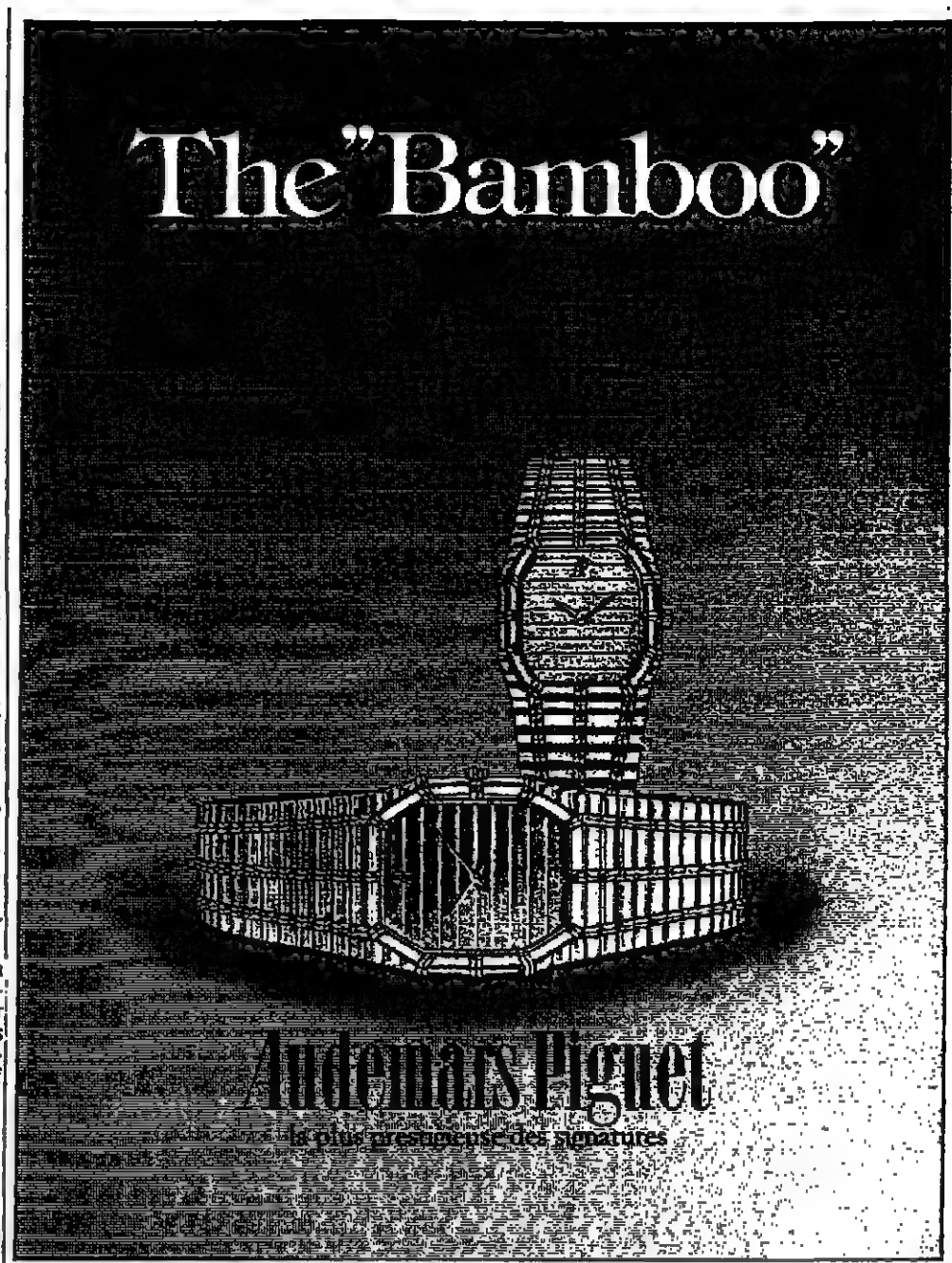
**KRUGERRANDS – GOLD IN ITS MOST PRACTICAL FORM**

The most convenient and safest form of gold is Kruggerand gold bullion coins. Kruggerands are genuine legal tender. The over 40 million Kruggerands in circulation are more than all other modern gold bullion coins combined. Each Kruggerand coin contains exactly 1 troy ounce, 1/2oz, 1/4oz, or 1/10oz of pure gold; therefore, you can acquire them in either small or large quantities.

Kruggerands sell at the daily gold price plus a very small premium for minting and distribution. To make Kruggerands an even more enduring investment, each coin is pure gold... plus just a touch of alloy. That is why they are harder, more durable than unalloyed gold coins.

**HOW DO YOU INVEST IN KRUGGERANDS?**

Nothing could be simpler. You may buy a single coin or any quantity – in complete confidence and complete discretion – through most banks, stock brokers and bullion coin dealers. And you may resell them just as



**KRUGERRAND**  
Money you can trust.



**NASDAQ National Market Prices**[illegible]



## BUSINESS ROUNDUP

## Hanson Aims to Raise \$638 Million

**LONDON** — Hanson Trust PLC, a British diversified industrial holding company, said Monday it is raising £503 million (\$638 million) through an issue of ordinary shares and an issue of convertible preference shares.

The issue terms are one new ordinary share for every six ordinary shares held at 185 pence each. Also, ordinary shareholders and holders of Hanson 8-percent convertible preferred loan stock dated 2004 to 2009 will be offered Hanson 5.75-percent convertible redeemable £1 preference shares.

The convertible preference shares are being issued at 100 pence each, Hanson said.

The company is raising about £359 million, net of expenses from the one-for-six rights issue, and about £144 million net from the issue of convertible preference shares.

The 185-pence rights subscrip-

tion is payable as to 100 pence by July 4 and the final 85 pence by Sept. 27, 1985. The convertible preference share issue will also be partly paid, with 50 pence due by July 4 and the final 50 pence by Aug. 30, 1985.

Hanson said it expects to pay a final dividend for fiscal 1984/85 ending Sept. 30 of 2.7 pence an ordinary share, making 4.2 pence against 3.33 pence the previous year.

Holders of the newly issued ordinary shares will be entitled to the final dividend.

The 5.75-percent convertible preference shares will pay dividends on April 1 and Oct. 1. The shares will be convertible at the rate of one ordinary share for every 2.4 convertible preference shares on Feb. 28 in any year from 1988. The redemption date is Oct. 1, 2003.

Hanson said its board believes the combination of ordinary shares

offered at a discount to market price and convertible preference shares with an attractive yield gives shareholders an opportunity to increase their investment in the company on advantageous terms.

Hanson ordinary shares on the London Stock Exchange were last quoted Monday at 219 pence, down from 222 pence late Friday.

The company said the funding exercise will enable it to take greater advantage of opportunities and provide a strong stable platform for internal growth and possible further major acquisitions.

In the short-term, the proceeds will significantly reduce Hanson's borrowings. Cash spending on acquisitions since 1981 has totaled some £646 million.

Last week, Hanson reported pre-tax profit of £106.1 million, up from £64.4 million, for the six months ended March 31. Sales rose to £1.48 billion from £900.4 million.

## NTT, IBM Plan Computer Link

The Associated Press

**TOKYO** — Nippon Telegraph & Telephone Corp. and International Business Machines Corp. are jointly developing a system that would enable users of Japan's domestic communications network to connect with IBM's computer network abroad, NTT and IBM Japan spokesmen said Monday.

The two companies have completed basic research on providing such a link for domestic computer users.

Asahi Shimbun, the Japanese newspaper, reported Sunday that the aim of a tie-up between NTT and IBM would be to compete with a worldwide communications network planned by American Telephone & Telegraph Co.

## Dollar's Rise Seen as Economic Threat Mexico Has Growth Pains

(Continued from Page 1)

most in the labor market but also elsewhere," the report said. "The sad conclusion is that, given the existing characteristics of labor and product markets, there is no macroeconomic policy of any shape or combination capable, by itself, of leading simultaneously to full employment and price stability."

"Or, to put it more positively: The precondition for restoring the effectiveness of macroeconomic policies is a much greater flexibility of markets."

The report suggested, for example, that wage indexation based on price indexes be replaced by linking remuneration — at least in part — to the changing profitability of individual firms "somewhat along the lines of the bonus and overtime provisions applying in Japan, where fluctuations in labor income have gone hand in hand with relative job security."

Only such a major departure from current practice could make it possible for labor to be priced into

the market and for unemployment to be gradually swept away," the report said.

The BIS also expressed considerable disquiet about the speed and breadth of deregulation, innovation and despecialization that is transforming the international financial marketplace. This process, it said, "must be kept firmly under control, so as to ensure that it proceeds in an orderly and balanced way without suddenly exposing whole categories of financial intermediary to disruptive pressure."

The BIS is concerned that the operative efficiency of central banks' monetary policy may be undermined, that the "transparency" of markets and of the operations of individual institutions may become clouded.

Jean Godeaux, head of the Belgian central bank and chairman of the BIS, said in his personal comments to reporters that the complexity of the new hedging devices, such as interest rate and currency swaps, and the number of institu-

tions engaged in the business "may make it hard for individual participants fully to understand the risks involved in them, and may also diminish the transparency of the international markets."

Mr. Godeaux and the annual report written by Alexandre Lamfalussy, general manager of the BIS, emphasized the need for banking authorities "to adjust the supervisory framework to this highly innovative and more competitive environment" and to coordinate these efforts internationally.

## Producer Prices Rise in Britain

Reuters

**LONDON** — British producer prices rose 0.2 percent in May, after April's rise was revised to 1.2 percent from 1.1 percent, the government reported Monday.

Manufacturers' costs fell 1.1 percent in May after April's fall was revised to 3.2 percent from 2.5 percent. The year-on-year increase slowed to 3.6 percent from a revised 5.2 percent in April.

In another report, the government said retail sales rose a seasonally adjusted and provisional 1 percent in May, after April's 0.2-percent increase.

## U.S. Refuses to Halt Icahn Bid for TWA

The Associated Press

**WASHINGTON** — The Department of Transportation refused Monday to intervene in Carl C. Icahn's attempted takeover of Trans World Airlines Inc., saying that the government should not be "drawn into takeover attempts or other management disputes."

The department denied a TWA request to order a halt in Mr. Icahn's attempt to control the airline or begin an investigation into whether the New York financier is fit to operate an airline.

Mr. Icahn has purchased nearly one-third of TWA's 34.5 million common shares and has said he wants to buy the rest as soon as possible at \$18 a share.

## Mexico Has Growth Pains

(Continued from Page 13)

the economy is starting to rebound and as an indication that the government is serious in reducing the protection of domestic industry, both lowering prices at home and making Mexican manufactured goods more attractive abroad. The largest gains were registered in semifinished goods and capital equipment, although consumer imports also jumped 22 percent.

Mexico's in-bond manufacturing industry — which gives tax advantages to foreign companies that assemble goods here for export — also is continuing to grow at a significant pace, according to Banco Nacional de Mexico SA.

Lower interest rates in the United States stand to help Mexico in two ways, according to government officials and private economists.

They have reduced by about \$1 billion the estimated \$10 billion that Mexico was going to have to pay on its foreign debt this year.

In addition, officials hope that the low rates in the United States will reduce the flight of capital from Mexico, which some non-government economists estimate reached \$2 billion in the last half of 1984 — considerably more than the government has acknowledged.

Even though the peso is currently being devalued at a rate of 25 percent a year, the rates being paid by Mexican banks and treasury issues — some in excess of 60 percent a year — now give a substantial advantage to those who keep and spend their money in Mexico.

The high rates, while discouraging to business, are also an indication of progress: the result of a new law that prevents the government from making up its deficits by simply forcing the central bank to print money, and requires it to seek its funds in the public credit markets.

"Little by little, we are coming out of it," one Mexican treasury official said of the crisis, "but it is a very slow process."

## Fed Interventions Cost \$580 Million

The Associated Press

**NEW YORK** — The United States intervened on six occasions in currency markets in February and March, buying \$580.2 million of Deutsche marks, Japanese yen and British pounds, the Federal Reserve Bank of New York said.

U.S. authorities had acknowledged in early March that they had intervened, but details of the operation were made public Friday in a report from the New York Fed.

It was the largest bout of U.S. intervention for any quarter since the February-April period in 1981, when \$778 million worth of DM were purchased and \$74.4 million in DM were sold by the United States.

## Norway Oil Field Approved

Reuters

**OSLO** — Norway has approved plans to develop the second phase of the North Sea Gullfaks field, which will produce 200,000 barrels of crude oil per day from 1990. The \$4.5-billion development is aimed at offsetting a threatened investment loss.

## AMC May Leave U.S. Plant Open

Compiled by Our Staff From Dispatches

**DETROIT** — The president of American Motors Corp., in a newspaper interview published here, has left open the possibility that the company's only U.S. assembly plant could continue to operate if unionized workers make concessions on wages and benefits.

The executive, Jose J. Deuderauer, was quoted by The Detroit News on Sunday as saying AMC would build small cars overseas to replace the production from the plant at Kenosha, Wisconsin, if negotiations with the United Auto Workers aimed at reducing labor costs were unsuccessful. Negotiations were to resume Monday.

AMC, which is 46.4-percent owned by Renault, the French state-controlled automaker, filed legal notices last month with the state of Wisconsin and with more than 5,500 hourly employees of its intent to close the Kenosha plant by July 1, 1986.

(Reuters, IHT)

## COMPANY NOTES

**Hitsch Ltd.** plans to double its production of very large scale integrated chips at its factory in Dallas to 2.4 million chips in 1986, a company vice president said in Tokyo.

**InterNorth Inc.** said it completed its \$70-per-share tender offer last Friday for Houston Natural Gas Corp., receiving 31,170,888 shares, or 96.4 percent of the company's outstanding stock.

**Kenilworth Systems Corp.** said it was released from Chapter 11 proceedings under the U.S. bankruptcy code and would begin reorganization immediately. Kenilworth will issue 1,961,505 common shares in full settlement of all creditors' claims and legal proceedings. It will also pay \$315,000 cash to governmental and other priority obligations.

**Landis & Gyr AG** of Zug, Switzerland, said incoming orders in the first half of the fiscal year ending Sept. 30, 1985, rose 13 percent to 807 million Swiss francs (\$313.8 million). It said invoiced sales rose 20 percent to 744 million francs and production was up 16 percent at 768 million francs.

Peugeot SA has scrapped plans

to build 4,000 luxury sports cars annually in Michigan with the coachbuilder Cars & Concepts, according to Automotive News, a trade newspaper in Detroit.

**Ralston Purina Co.** and **Forstmann Little & Co.** said they terminated their agreement signed last month under which Forstmann would have bought a Ralston unit, Foodmaker Inc., for \$500 million. The two companies cited falling sales in the fast-food industry and a decline in earnings of Foodmaker, which includes the former Jack-in-the-Box restaurant chain.

**Tandem Computer Inc.** of Cupertino, California, said it would introduce in the third quarter of 1985 five new products that would allow customers to use Tandem networks to provide company-wide information systems. These systems would link users of a variety of incompatible personal computers, work stations, terminals, facsimile devices and local area networks.

**Trilo Kenwood Corp.** plans a 1-for-10 or a 1-for-20 bonus stock issue to shareholders registered on May 20, 1986, a company spokesman said in Tokyo.

## Monday's AMEX Closing

Tables include the nationwide prices up to the closing on Wall Street and do not reflect intra-trading elsewhere. Via The Associated Press

12 Month High Low Stock Div. Yld. PE 52-Week High Low Close Chg.

A

74 29 ADI 1.38 3.5 12 112 112 112 0

75 29 AL 1.38 3.5 12 112 112 112 0

76 29 AMT 1.38 3.5 12 112 112 112 0

77 29 AN 1.38 3.5 12 112 112 112 0

78 29 AR 1.38 3.5 12 112 112 112 0

79 29 AT 1.38 3.5 12 112 112 112 0

80 29 AU 1.38 3.5 12 112 112 112 0

81 29 AV 1.38 3.5 12 112 112 112 0

82 29 AW 1.38 3.5 12 112 112 112 0

83 29 AX 1.38 3.5 12 112 112 112 0

84 29 AY 1.38 3.5 12 112 112 112 0

85 29 AZ 1.38 3.5 12 112 112 112 0

86 29 BA 1.38 3.5 12 112 112 112 0

87 29 BB 1.38 3.5 12 112 112 112 0

88 29 BC 1.38 3.5 12 112 112 112 0

89 29 BD 1.38 3.5 12 112 112 112 0

90 29 BE 1.38 3.5 12 112 112 112 0

91 29 BF 1.38 3.5 12 112 112 112 0

92 29 BG 1.38 3.5 12 112 112 112 0

93 29 BH 1.38 3.5 12 112 112 112 0

94 29 BI 1.38 3.5 12 112 112 112 0

95 29 BJ 1.38 3.5 12 112 112 112 0

96 29 BK 1.38 3.5 12 112 112 112 0

97 29 BL 1.38 3.5 12 112 112 112 0

98 29 BM 1.38 3.5 12 112 112 112 0

99 29 BN 1.38 3.5 12 112 112 112 0

100 29 BO 1.38 3.5 12 112 112 112 0

101 29 BP 1.38 3.5 12 112 112 112 0

102 29 BQ 1.38 3.5 12 112 112 112 0

103 29 BR 1.38 3.5 12 112 112 112 0

104 29 BS 1.38 3.5 12 112 112 112 0

105 29 BT 1.38 3.5 12 112 112 112 0

106 29 BU 1.38 3.5 12 112 112 112 0

107 29 BV 1.38 3.5 12 112 112 112 0

108 29 BW 1.38 3.5 12 112 112 112 0

109 29 BX 1.38 3.5 12 112 112 112 0

110 29 BY 1.38 3.5 12 112 112 112 0

111 29 BZ 1.38 3.5 12 112 112 112 0

112 29 CA 1.38 3.5 12 112 112 112 0

113 29 CB 1.38 3.5 12 112 112 112 0

114 29 CC 1.38 3.5 12 112 112 112 0

115 29 CD 1.38 3.5 12 112 112 112 0

116 29 CE 1.38 3.5 12 112 112 112 0

117 29 CF 1.38 3.5 12 112 112 112 0

118 29 CG 1.38 3.5 12 112 112 112 0

119 29 CH 1.38 3.5 12 112 112 112 0

120 29 CI 1.38 3.5 12 112 112 112 0

121 29 CJ 1.38 3.5 12 112 112 112 0

122 29 CK 1.38 3.5 12 112 112 112 0

123 29 CL 1.38 3.5 12 112 112 112 0

124 29 CM 1.38 3.5 12 112 112 112 0

125 29 CN 1.38 3.5 12 112 112 112 0

126 29 CO 1.38 3.5 12 112 112 112 0

127 29 CP 1.38 3.5 12 112 112 112 0

128 29 CQ 1.38 3.5 12 112 112 112 0

129 29 CR 1.38 3.5 12 112 112 112 0

130 29 CS 1.38 3.5 12 112 112 112 0

12 Month High Low Stock Div. Yld. PE 52-Week High Low Close Chg.

B

131 29 CT 1.38 3.5 12 112 112 112 0

132 29 CU 1.38 3.5 12 112 112 112 0

133 29 CV 1.38 3.5 12 112 112 112 0

134 29 CW 1.38 3.5 12 112 112 112 0

135 29 CX 1.38 3.5 12 112 112 112 0

136 29 CY 1.38 3.5 12 112 112 112 0

137 29 CZ 1.38 3.5 12 112 112 112 0

138 29 DA 1.38 3.5 12 112 112 112 0

139 29 DB 1.38 3.5 12 112 112 112 0

140 29 DC 1.38 3.5 12 112 112 112 0

141 29 DD 1.38 3.5 12 112 112 112 0

142 29 DE 1.38 3.5 12 112 112 112 0

143 29 DF 1.38 3.5 12 112 112 112 0

144 29 DG 1.38 3.5 12 112 112 112 0

145 29 DH 1.38 3.5 12 112 112 112 0

146 29 DI 1.38 3.5 12 112 112 112 0

147 29 DJ 1.38 3.5 12 112 112 112 0

148 29 DK 1.38 3.5 12 112 112 112 0

149 29 DL 1.38 3.5 12 112 112 112 0

150 29 DM 1.38 3.5 12 112 112 112 0

151 29 DN 1.38 3.5 12 112 112 112 0

152 29 DO 1.38 3.5 12 112 112 112 0

153 29 DP 1.38 3.5 12 112 112 112 0

154 29 DQ 1.38 3.5 12 112 112 112 0

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162 29 DY 1.38 3.5 12 112 112 112 0

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164 29 EA 1.38 3.5 12 112 112 112 0

165 29 EB 1.38 3.5 12 112 112 112 0

166 29 EC 1.38 3.5 12 112 112 112 0

167 29 ED 1.38 3.5 12 112 112 112 0

168 29 EE 1.38 3.5 12 112 112 112 0

169 29 EF 1.38 3.5 12 112 112 112 0

170 29 EG 1.38 3.5 12 112 112 112 0

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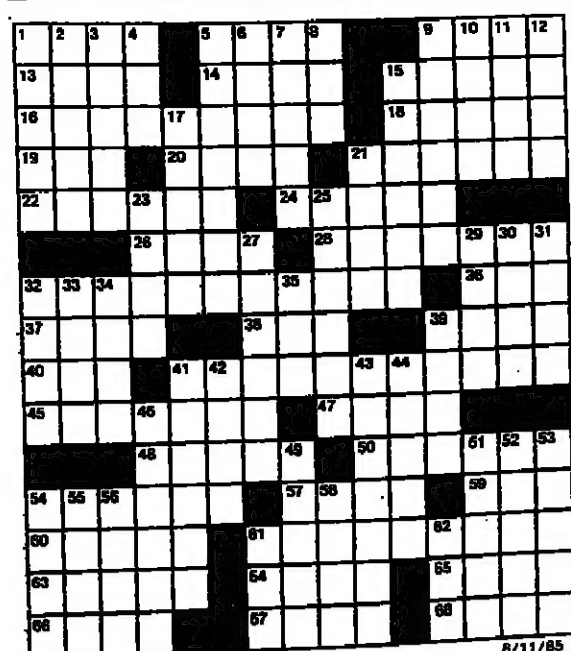
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175 29 EL 1.38 3.5 12 112 112 112 0

176 29 EM 1.38 3.5 12 112 112 112 0

177 29 EN 1.38 3.5 12 112 112 112 0





- ACROSS**
- Garage or yard event
  - Name meaning "I trust"
  - TV's Hawkeye
  - Hebrew prophet
  - Pizzeria fixture
  - Nietzsche
  - U.S. poet: 1899-1932
  - Airborne
  - Adjective suffix
  - Holy season
  - Takes away forcibly
  - Diminutive
  - Plant spray
  - Sector
  - Fresh outbreak
  - Old-time tap dance
  - Put on years
  - Medicinal plant
  - County prosecutors: Abbr.
  - A bond
  - Australian ranch: Abbr.
  - Close-fitting cap
  - One of the ants
  - Abominable
  - Snowman
- DOWN**
- Indian term of respect
  - Continental colony in Iowa
  - Actress Sophia
  - Ex-spouse
  - Fender-bender
  - Wedded
  - Assent without proof
  - Papal names (13, in all)
  - Silly
  - Learned skills
  - Compassionate
  - Barton or Maass
  - British naval servicewoman
  - Gate receipts
  - Affectionately nice
  - Consonant
  - Vipers
  - Airing
  - Malarial fever
  - Sly glance
  - Large-mouthed game fish
  - Of the preceding mo.
  - Newcastle's surfact
  - "The... of the Worlds"
  - Wells
  - Smooth-tongued
  - Radio tubes
  - Unusually
  - They pay to stay
  - Molecule
  - Lingers over, with "on"
  - Ex-spouse
  - Place for a boutonniere
  - Overcast
  - Strength
  - Croat or Slovene
  - White
  - Do a magazine job
  - Confesses, with "up"
  - Tallish tale
  - Raises

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## DENNIS THE MENACE



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## JUMBLE

Unscramble these four jumbles, one letter to each square, to form four ordinary words.

Your new office, son

VICE-PRESIDENT

WHAT NEPOTISM IS.

Now arrange the circled letters to form the surprise answer, as suggested by the above cartoon.

ANSWER: "CIRCLES" (Answers tomorrow)

Yesterday's Jumbles: BEIGE PEONY DISCUS FORGET

Answer: What a murky fog gives drivers - THE "GREENS"

## WEATHER

EUROPE HIGH LOW ASIA HIGH LOW

Alders 7 15 15 25 15 25 15 25

Amsterdam 15 25 15 25 15 25 15 25

Athens 15 25 15 25 15 25 15 25

Barcelona 15 25 15 25 15 25 15 25

Berlin 15 25 15 25 15 25 15 25

Brussels 15 25 15 25 15 25 15 25

Budapest 15 25 15 25 15 25 15 25

Cairo 15 25 15 25 15 25 15 25

Cape Town 15 25 15 25 15 25 15 25

Chicago 15 25 15 25 15 25 15 25

Columbus 15 25 15 25 15 25 15 25

Dallas 15 25 15 25 15 25 15 25

Denver 15 25 15 25 15 25 15 25

Detroit 15 25 15 25 15 25 15 25

Houston 15 25 15 25 15 25 15 25

Los Angeles 15 25 15 25 15 25 15 25

London 15 25 15 25 15 25 15 25

Madrid 15 25 15 25 15 25 15 25

Miami 15 25 15 25 15 25 15 25

Mexico City 15 25 15 25 15 25 15 25

New York 15 25 15 25 15 25 15 25

Oahu 15 25 15 25 15 25 15 25

Paris 15 25 15 25 15 25 15 25

Philadelphia 15 25 15 25 15 25 15 25

Phoenix 15 25 15 25 15 25 15 25

Portland 15 25 15 25 15 25 15 25

San Francisco 15 25 15 25 15 25 15 25

Seattle 15 25 15 25 15 25 15 25

Tokyo 15 25 15 25 15 25 15 25

Tulsa 15 25 15 25 15 25 15 25

Washington 15 25 15 25 15 25 15 25

## PEANUTS



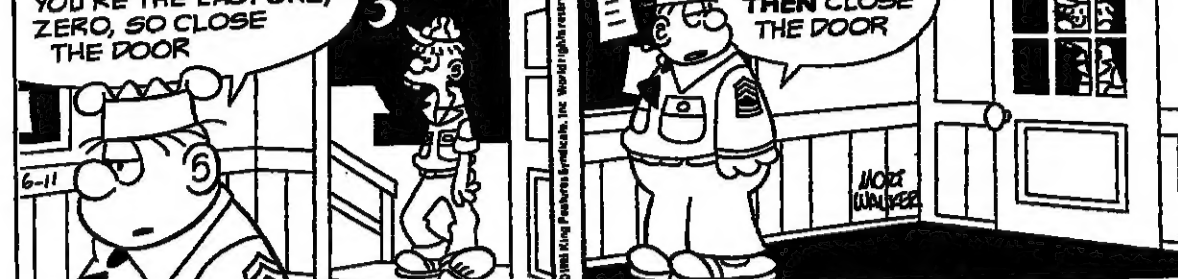
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## BLONDIE



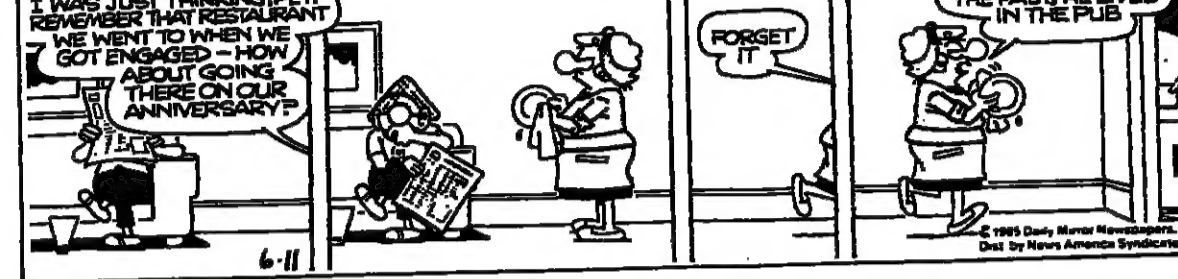
© 1985 United Feature Syndicate, Inc.

## BETTY BAILEY



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## ANDY CAPP



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## WIZARD OF ID



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## REX MORGAN



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## GARFIELD



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## THE HOUSE OF THE SPIRITS

By Isabel Allende; translated from the Spanish by Magda Bogin. 368 pages. \$17.95.

Alfred A. Knopf, 201 East 40th Street, New York, N.Y. 10022.

Reviewed by Jonathan Yardley

THIS FIRST novel by a Chilean journalist comes to the United States after a great success both commercial and critical in Europe. At first glance it is tempting to suggest that this is explained by the author's minor celebrity—she is a niece of Salvador Allende Gossens, the leftist president of Chile who was ousted in 1973 by a military junta that described his subsequent death as a suicide—but the novel itself indicates otherwise. "The House of the Spirits" does contain a certain amount of rather predictable politics, but the only cause it wholly embraces is that of humanity, and it does so with such passion, humor and wisdom that in the end it transcends politics. It is also a genuine rarity, a work of fiction that is both an impressive literary accomplishment and a mesmerizing story fully accessible to a general readership.

Like so many other writers now at work in Latin America and elsewhere in the Third World, Isabel Allende is very much under the influence of Gabriel Garcia Marquez, but she has created a world that intertwines the real and the fantastic, she has devised a colorful, ironic language with which to describe it, and she has addressed herself to the contemporary Latin American political and social situation. But her narrative method is more conventional, her prose is less flamboyant, and her

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Her story takes place in a "country of castles," a "half-forgotten country at the end of the earth" that could be Chile or just about anywhere else in Latin America: a Latin

Everywhere where the wilderness and mystery of nature are always close at hand, where the very rich and the very poor coexist in an uneasy intimacy that constantly threatens to dissolve into open conflict.

The very rich in this story are the family of Esteban Trueba, an energetic, willful man whose "most salient trait was his maddening and a tendency to grow violent and lose his head"; the very poor are the peasants who farm his vast estate in the countryside. For whom "time was measured in seasons, and thought by generations," who have been taught by hard experience "that in the end the fittest always eats the fittest," and who are always on the move, traveling from mouth to mouth preaching just the opposite.

Esteban is the only character who lasts through the novel's beginning around the turn of the century until its conclusion some time near the present. That distinction is shared by three women: his wife, Clara, his daughter, Blanca, and his granddaughter, Alba. They are the extraordinary trio, of whom Clara is the most powerful and as a girl is known as Clara the Clairvoyant because, among other things, she can "interpret dreams," "predict the future" and recognize people's intentions, and "move objects without touching them."

What Esteban comes to understand at the end of his days is not that one side or the other was right, but merely that nothing is immutable, that "a world he had thought was good had crumbled at his feet." Allende has the tolerance and the wisdom to understand that there is lamentable human loss when any world crumbles, even if it was not a good one, and the cantankerous Esteban emerges at last as a deeply sympathetic figure.

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The Hungarian grandmaster, Zoltan Ribli came in third with 9-5-3.

In the 12th round, Lputian won a sharp encounter with the Yugoslav grandmaster Dragoljub Velimirovic.

However, it began inauspiciously when, in place of the two-edged 9 B-P4, Lputian played the quiet 9 K-P4, which aims to use White's advantage in space without allowing demanding counterplay.

This did not stop Velimirovic from offering a pawn with 11... P-Q4?; 12 P-B2, N-N2 (12... Q-N4?); 13 N-N4, N-N4; 14 B-Q4, wins the planned knight; 13 B-QB4, P-QR3. Rather than concede dynamic play to Black by 14 P-B2, BxP: 15 BxP, RxB; 16 Q-Q3, Q-R1; 17 R-Q1, R-N1, Lputian ventured 14 P-N6?.

One point was that after 14... N-N4; 15 Q-N3!;

Black could not play 15... QxP: since 16 P-Q4, Q-R4; 17 N-K2, N-K5; 18 B-B4 wins a piece.

Velimirovic's clever 25... B-B4? was an attempt to lure Lputian into trapping the black queen with 26 P-N3, QxR; 27 P-Q4, BxB, which gives Black some chance for obscure complications after 28 R-N6, R-K5; 29 N-Q2, BxP; 30 P-B4, B-K3. However, Lputian preferred to follow his own plan for winning.

With 29... R-Q2, Velimirovic threatened to recoup the vital pawn with 30... Q-R2, yet Lputian discovered a sharp rebuff in 30 R-K2! Now, sharp rebuff in 30 R-QB5; 31 R-R2, QxP; 32 R-R8, R-Q1 (32... RxR?); 33 PxR/Qch, QxQ; 34 R-N8ch wins the queen; 33 RxR, RxB; 34 Q-R1, Q-K3 (34... RxP?); 35 Q-R3ch; 35 Q-R7, Q-K1 would not hold up against either 36 RxB or 36 R-B6.

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